# Nokia 6131 NFC User Guide

**DECLARATION OF CONFORMITY**

$C\epsilon$0434

Hereby, NOKIA CORPORATION declares that this **RM–216** product is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. A copy of the Declaration of Conformity can be found at http://www.nokia.com/phones/declaration_of_conformity/.

This device complies with Directive 2002/95/EC on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

**Export controls**

This device may contain commodities, technology or software subject to export laws and regulations from the US and other countries. Diversion contrary to law is prohibited.

**FCC/INDUSTRY CANADA NOTICE**

Your device may cause TV or radio interference (for example, when using a telephone in close proximity to receiving equipment). The FCC or Industry Canada can require you to stop using your telephone if such interference cannot be eliminated. If you require assistance, contact your local service facility. This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Any changes or modifications not expressly approved by Nokia could void the user's authority to operate this equipment.

9203947, Issue 1
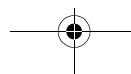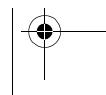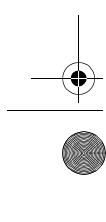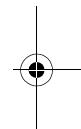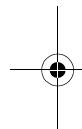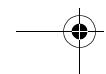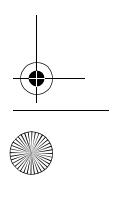
# Contents

# For your safety

Read these simple guidelines. Not following them may be dangerous or illegal. Read the complete user guide for further information.

**SWITCH ON SAFELY**
Do not switch the device on when wireless phone use is prohibited or when it may cause interference or danger.

**ROAD SAFETY COMES FIRST**
Obey all local laws. Always keep your hands free to operate the vehicle while driving. Your first consideration while driving should be road safety.

**INTERFERENCE**
All wireless devices may be susceptible to interference, which could affect performance.

**SWITCH OFF IN HOSPITALS**
Follow any restrictions. Switch the device off near medical equipment.

**SWITCH OFF IN AIRCRAFT**
Follow any restrictions. Wireless devices can cause interference in aircraft.

**SWITCH OFF WHEN REFUELING**
Do not use the device at a refueling point. Do not use near fuel or chemicals.

**SWITCH OFF NEAR BLASTING**
Follow any restrictions. Do not use the device where blasting is in progress.

**USE SENSIBLY**
Use only in the positions as explained in the product documentation. Do not touch the antenna areas unnecessarily.

**QUALIFIED SERVICE**
Only qualified personnel may install or repair this product.

**ENHANCEMENTS AND BATTERIES**
Use only approved enhancements and batteries. Do not connect incompatible products.

**WATER-RESISTANCE**
Your device is not water-resistant. Keep it dry.

**BACK-UP COPIES**
Remember to make back-up copies or keep a written record of all important information stored in your device.

CONNECTING TO OTHER DEVICES
When connecting to any other device, read its user guide for detailed safety instructions. Do not connect incompatible products.

EMERGENCY CALLS
Ensure the phone function of the device is switched on and in service. Press the end key as many times as needed to clear the display and return to the standby mode. Enter the emergency number, then press the call key. Give your location. Do not end the call until given permission to do so.

# ■ About your device

The wireless device described in this guide is approved for use on the GSM 850, 900, 1800, and 1900 networks. Contact your service provider for more information about networks.

When using the features in this device, obey all laws and respect local customs, privacy and legitimate rights of others, including copyrights.

When taking and using images or video clips, obey all laws and respect local customs as well as privacy and legitimate rights of others.

**Warning:** To use any features in this device, other than the alarm clock and the NFC tag detection, if the activation level is set to *Always on*, the device must be switched on. Do not switch the device on when wireless device use may cause interference or danger.

# ■ Network services

To use the phone you must have service from a wireless service provider. Many of the features require special network features. These features are not available on all networks; other networks may require that you make specific arrangements with your service provider before you can use the network services. Your service provider can give you instructions and explain what charges will apply. Some networks may have limitations that affect how you can use network services. For instance, some networks may not support all language-dependent characters and services.

Your service provider may have requested that certain features be disabled or not activated in your device. If so, these features will not appear on your device menu. Your device may also have a special configuration such as changes in menu names, menu order, and icons. Contact your service provider for more information.

This device supports WAP 2.0 protocols (HTTP and SSL) that run on TCP/IP protocols. Some features of this device, such as multimedia messaging service (MMS), browsing, remote synchronization, and content downloading using the browser or MMS, require network support for these technologies.

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## ■ Shared memory

The following features in this device may share memory: gallery, contacts, text messages, multimedia messages, calendar, to-do notes, Java™ games and applications, and note application. Use of one or more of these features may reduce the memory available for the remaining features sharing memory. Your device may display a message that the memory is full when you try to use a shared memory feature. In this case, delete some of the information or entries stored in the shared memory features before continuing.

# General information

## ■ Overview of functions

Your phone provides many functions that are practical for daily use, such as a text and multimedia messaging, a calendar, a clock, an alarm clock, a radio, a music player, and a built-in camera. Your phone also supports the following functions:

- Plug and play online service to get the configuration settings. See "Plug and play service," p. 13, and "Configuration settings service," p. 9.
- Payment and Ticketing by NFC. See "Payment and ticketing," p. 63.
- *NFC* to read and transmit information to service tags. See "NFC," p. 62.
- A microSD memory card to extend the memory capacity of the phone. See "Memory card installation," p. 12 and "Memory card," p. 36.
- Active standby. See "Active standby," p. 15.
- Audio messaging. See "Nokia Xpress audio messaging," p. 26.
- Enhanced voice dialing. See "Enhanced voice dialing," p. 18 and "Voice commands," p. 45.
- Java 2 Platform, Micro Edition (J2ME™). See "Applications," p. 37.

## ■ Access codes

### Security code

The security code (5 to 10 digits) helps to protect your phone against unauthorized use. The preset code is 12345. To change the code, and to set the phone to request the code, see "Security," p. 52.

### PIN codes

The personal identification number (PIN) code and the universal personal identification number (UPIN) code (4 to 8 digits) help to protect your SIM card against unauthorized use. See "Security," p. 52.

The PIN2 code (4 to 8 digits) may be supplied with the SIM card and is required for some functions.

The module PIN is required to access the information in the security module. See "Security module," p. 34.

The signing PIN is required for the digital signature. See "Digital signature," p. 35.

## PUK codes

The personal unblocking key (PUK) code and the universal personal unblocking key (UPUK) code (8 digits) is required to change a blocked PIN code and UPIN code, respectively. The PUK2 code (8 digits) is required to change a blocked PIN2 code. If the codes are not supplied with the SIM card, contact your local service provider for the codes.

## Restriction password

The restriction password (4 digits) is required when using the *Call restrictions*. See "Security," p. 52.

## Secure element passcode

Depending on the activation level, the secure element passcode (4 digits) may be required to activate the secure element for payment and ticketing using NFC. See "Payment and ticketing," p. 63.

## ■ Configuration settings service

To use some of the network services, such as mobile internet services, MMS, Nokia Xpress audio messaging, or remote internet server synchronization, your phone needs the correct configuration settings. You may be able to receive the settings directly as a configuration message. After receiving the settings, you must save them on your phone. The service provider may provide a PIN that is needed to save the settings. For more information on availability of the settings, contact your service provider, nearest authorized Nokia dealer, or visit the support area on the Nokia Web site, **www.nokiausa.com/support**.

When you receive the settings as a configuration message, and the settings are not automatically saved and activated, *Configuration settings received* is displayed.

To save the settings, select **Show** > **Save**. If the phone requests *Enter settings' PIN:*, enter the PIN code for the settings, and select **OK**. To receive the PIN code, contact the service provider that supplies the settings. If no settings are saved, these settings are saved and set as default configuration settings. Otherwise, the phone asks *Activate saved configuration settings?*.

To discard the received settings, select **Exit** or **Show** > **Discard**.

## ■ Download content

You may be able to download new content (for example, themes) to the phone (network service). Select the download function (for example, in the *Gallery* menu). To access the download function, see the respective menu descriptions.

You may also be able to download updates of phone software (network service). See *Phone updates* in "Phone," p. 50.

For the availability of different services, pricing, and fees, contact your service provider.

> **Important:** Use only services that you trust and that offer adequate security and protection against harmful software.

## ■ Software updates

Nokia may produce software updates that may offer new features, enhanced functions, or improved performance. You may be able to request these updates through the Nokia Software Updater PC application. To update the device software, you need the Nokia Software Updater application and a compatible PC with Microsoft Windows 2000 or XP operating system, broadband internet access, and a compatible data cable to connect your device to the PC.

To get more information and to download the Nokia Software Updater application, visit **www.nokiausa.com/softwareupdate** or your local Nokia web site.

If software updates over the air are supported by your network, you may also be able to request updates through the device. See *Phone updates* in "Phone," p. 50.

Downloading software updates may involve the transmission of large amounts of data through your service provider's network. Contact your service provider for information about data transmission charges.

Make sure that the device battery has enough power, or connect the charger before starting the update.

> **Important:** Use only services that you trust and that offer adequate security and protection against harmful software.

# 1.  Get started

## ■ Install SIM card and battery

Always switch the device off and disconnect the charger before removing the battery.

Keep all SIM cards out of the reach of small children.

For availability and information on using SIM card services, contact your SIM card vendor. This may be the service provider or other vendor.

This device is intended for use with BL-4C battery. Always use original Nokia batteries. See "Nokia battery authentication guidelines," p. 67.

The SIM card and its contacts can easily be damaged by scratches or bending, so be careful when handling, inserting, or removing the card.

To install the SIM card:

1. Press slightly to remove the back cover of the phone.

2. Slide the cover off.

3. Remove the battery, as shown.

4. Open the SIM card holder.

5. Insert the SIM card properly into the holder.

6. Closer the SIM card holder.

7. Replace the battery.

8. Replace the back cover.

9. Slide the back cover until it locks into place.
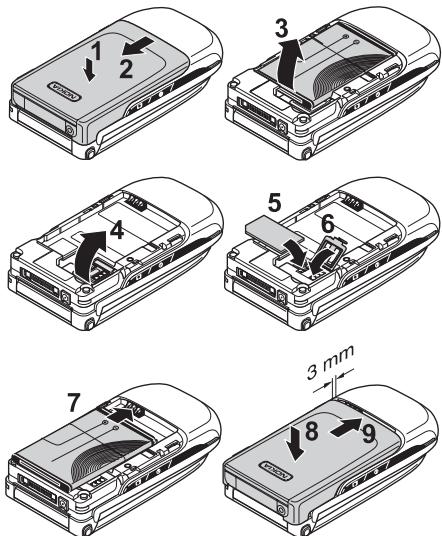
## ■ Charge the battery

Check the model number of any charger before use with this device. This device is intended for use when supplied with power from an AC-3 or AC-4 charger.

**Warning:** Use only batteries, chargers, and enhancements approved by Nokia for use with this particular model. The use of any other types may invalidate any approval or warranty, and may be dangerous.

For availability of approved enhancements, please check with your dealer. When you disconnect the power cord of any enhancement, grasp and pull the plug, not the cord.

1. Connect the charger to a standard wall outlet.

2. Insert the charger plug into the jack on the bottom of the phone.
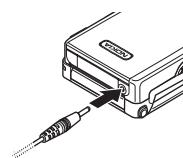
If the battery is completely discharged, it may take a few minutes before the charging indicator appears on the display or before any calls can be made.

The charging time depends on the charger used. Charging a BL-4C battery with the AC-3 charger takes approximately 2 hours and 20 minutes while the phone is in the standby mode.

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## ■ Memory card installation

Keep all microSD memory cards out of the reach of small children.

Use only compatible microSD cards approved by Nokia for use with this device. Nokia uses approved industry standards for memory cards, but some brands may not be fully compatible with this device. Incompatible cards may damage the card and the device and corrupt data stored on the card.

You can remove or replace the microSD card during phone operation without switching the phone off.

### Insert a microSD card

1. Remove the back cover of the phone.

2. Insert the card into the microSD card slot with the golden contact surface facing down, and press it until it locks into place.

3. Close the back cover of the phone.
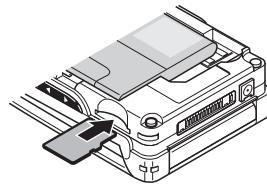
### Remove the microSD card

**Important:** Do not remove the microSD card in the middle of an operation when the card is being accessed. Removing the card in the middle of an operation may damage the memory card as well as the device, and data stored on the card may be corrupted.

1. Make sure that no application is currently accessing the micro SD memory card.

2. Remove the back cover of the phone.

3. Press the microSD card slightly in to release the lock.

4. Remove the microSD card from the slot.

## ■ Open and close the phone

To open the phone:

1. Press the fold release button.

2. The fold opens automatically.

To close the phone, turn the fold manually in its closed position.

To switch off a tone that sounds when you open and close the phone, see "Tones," p. 42.

To read from or write to a service tag, the phone must be open.

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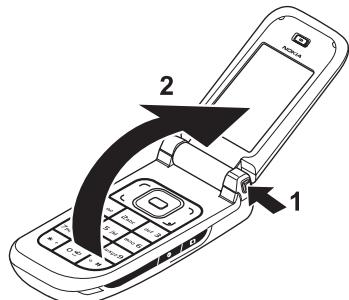
# ■ Switch the phone on and off

**Warning:** Do not switch the phone on when wireless phone use is prohibited or when it may cause interference or danger.

To switch the phone on or off, press and hold the power key. See "Keys and parts," p. 14.

If the phone prompts for a PIN or UPIN code, enter the code (displayed as ****), and select **OK**.

## Set the time, time zone, and date

Enter the local time, select the time zone of your location in terms of the time difference with respect to Greenwich Mean Time (GMT), and enter the date. See "Time and date," p. 44.

## Plug and play service

When you switch on your phone for the first time, and the phone is in the standby mode, you are asked to get the configuration settings from your service provider. Confirm or decline the query. See *Connect to serv. support* in "Configuration," p. 51, and "Configuration settings service," p. 9.

# ■ Antenna

Your device has an internal antenna.

**Note:** As with any radio transmitting device, avoid touching an antenna unnecessarily when the antenna is in use. For example, avoid touching the cellular antenna during a phone call. Contact with a transmitting or receiving antenna affects the quality of the radio communication, may cause the device to operate at a higher power level than otherwise needed, and may reduce the battery life.
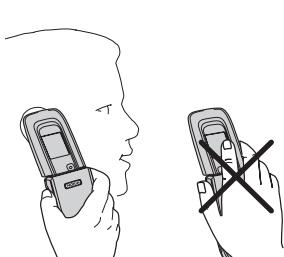
# ■ Phone strap

Thread the strap through the eyelet of the phone as shown in the picture, and tighten it.
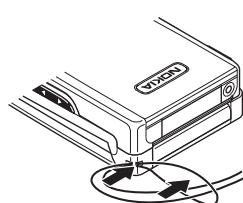
# 2.  Your phone

## ■ Keys and parts

1 — NFC detection area (grey)

2 — Earpiece

3 — Main display

4 — Left and right selection keys

5 — Middle selection key

6 — Call key

7 — Keypad

8 — Infrared window

9 — Fold release button

10 — Navi™ key (scroll key))

11 — End key

12 — Loudspeaker

13 — Phone strap eyelet

14 — Pop-Port™ connector flap

15 — Charger connector

16 — Camera lens

17 — Volume keys

18 — Mini display

19 — Camera key

20 — Power key
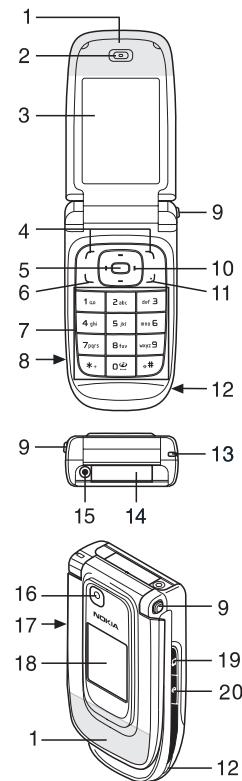
### Connector flap

To connect enhancements, open the Pop-Port™ connector flap.
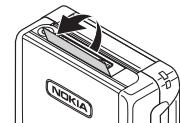
## ■ Standby mode

When the phone is ready for use, and you have not entered any characters, the phone is in the standby mode.

## Main display

1 — Signal strength of the cellular network

2 — Battery charge status

3 — Indicators

4 — Name of the network or the operator logo

5 — Clock

6 — Main screen

7 — Function of the left selection key is **Go to** or a shortcut to another function. See "Left selection key," p. 44.

8 — Function of the middle selection key is **Menu**.

9 — Function of the right selection key is **Names** or a shortcut to another function. See "Right selection key," p. 44. Operator variants may have an operator-specific name to access an operator-specific Web site.
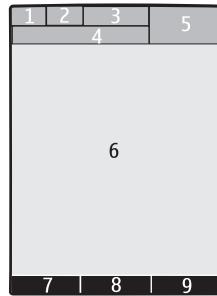
## Active standby

In the active standby mode there is a list of selected phone features and information on the screen that you can directly access in the standby mode. To switch on the mode, select **Menu** > *Settings* > *Main display* > *Standby mode settings* >*Active standby* > *My active standby*. In the standby mode, scroll up or down to activate the navigation in the list. Choose **Select** to start the feature or **View** to display the information. Left and right arrows at the beginning and end of a line indicate that further information is available by scrolling left or right. To end the active standby navigation mode, select **Exit**.

To organize and change the active standby mode, activate the navigation mode, and select **Options** > *Active standby* > **Options** and the following options:

*Personalize* — assign or change phone features in the standby mode.

*Organize* — move the position of features in the standby mode.

*Enabling active standby* — select keys to activate the standby navigation mode. To change the settings, see "Standby mode settings," p. 43.

To switch off the active standby mode, select **Options** > *Active standby* > *Off*; or select **Menu** > *Settings* > *Main display* > *Standby mode settings* > *Active standby* > *Off*.

## Shortcuts in the standby mode

- To access the list of dialed numbers, press the call key once. Scroll to the number or name that you want; and to call the number, press the call key.

- To open the web browser, press and hold **0**.

- To call your voice mailbox, press and hold **1**.

- Use the scroll key as a shortcut. See "My shortcuts," p. 44.

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- Press the camera key to start the camera (still photo).

- In camera mode press the volume keys to zoom in or out.

- Press a volume key to mute the ringing tone of an incoming call when the phone is closed.

- Press the power key to access the profiles menu on the main display.

## Indicators

✉  You have unread messages in the *Inbox* folder.

⬆  You have unsent, canceled or failed messages in the *Outbox* folder.

➡✎  The phone registered a missed call.

🔒  The keypad is locked.

✕  The phone does not ring for an incoming call or text message.

⏰  The alarm clock is set to *On*.

⏱  The countdown timer is running.

⏱  The stopwatch is running in the background.

**G**, E  The phone is registered to the GPRS or EGPRS network.

◻ , E  A GPRS or EGPRS connection is established.

🝙, Ɇ  The GPRS or EGPRS connection is suspended (on hold), for example, if there is an incoming or outgoing call during an EGPRS dial-up connection.

✳  A Bluetooth connection is active.

2  If you have two phone lines, the second phone line is selected.

↱  All incoming calls are forwarded to another number.

ᴛ  Calls are limited to a closed user group.

🕑  The timed profile is selected.
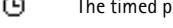
🎧 , 🚗 , 🔁 , or 🔊  
A headset, handsfree, loopset, or music stand enhancement is connected to the phone.

◻ ◿  The NFC detection is activated or deactivated.

◍ ◍ ◍  
The secure element is always active, deactivated, or passcode protected.

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## ■ Keypad lock (keyguard)

To prevent the keys from being accidentally pressed, select **Menu**, and press **\*** within 3.5 seconds to lock the keypad.

To unlock the keypad, select **Unlock**, and press **\*** within 1.5 seconds. If the *Security keyguard* is set *On*, enter the security code if requested.

To answer a call when the keyguard is on, press the call key. When you end or decline the call, the keypad automatically locks.

For *Security keyguard*, see "Phone," p. 50.

When the keyguard is on, calls still may be possible to the official emergency number programmed into your device.

## ■ Functions without a SIM card

Several functions of your phone may be used without installing a SIM card (for example, the data transfer with a compatible PC or another compatible device). Also reading and writing of service tags or payment and ticketing with NFC may be possible without installing a SIM card.

Note that when you use the phone without a SIM card, some functions appear dimmed in the menus and cannot be used. Synchronizing with a remote internet server is not possible without a SIM card.

For an emergency call, some networks may require that a valid SIM card is properly inserted in the device.

# 3.  Call functions

## ■ Make a call

1. Enter the phone number, including the area code.

   For international calls, press **\*** twice for the international prefix (the + character replaces the international access code), enter the country code, the area code without the leading 0, if necessary, and the phone number.

2. To call the number, press the call key.

3. To end the call or to cancel the call attempt, press the end key, or close the phone.

To find a name or phone number that you have saved in *Contacts*, see "Find a contact," p. 39. Press the call key to call the number.

To access the list of dialed numbers, press the call key once in the standby mode. To call the number, select a number or name, and press the call key.

### 1-touch dialing

Assign a phone number to one of the 1-touch-dialing keys, **2** to **9**. See "1-touch dialing,"
p. 41. Call the number in either of the following ways:

• Press a 1-touch-dialing key, then the call key.

• If *1-touch dialing* is set to *On*, press and hold a 1-touch-dialing key until the call begins.
  See *1-touch dialing* in "Call," p. 49.

### Enhanced voice dialing

You can make a phone call by saying the name that is saved in the contact list of the phone.
A voice command is added automatically to all entries in the contact list of the phone.

If an application is sending or receiving data using a packet data connection, end the
application before you use voice dialing.

Voice commands are language-dependent. To set the language, see *Voice playback language*
in "Phone," p. 50.

> **Note:** Using voice tags may be difficult in a noisy environment or during an
> emergency, so you should not rely solely upon voice dialing in all circumstances.

1. In the standby mode, press and hold the right selection key or press and hold the volume
   down key. A short tone is played, and *Speak now* is displayed.

   If you are using a compatible headset with the headset key, press and hold the headset
   key to start the voice dialing.

2. Say the voice command clearly. If the voice recognition was successful, a list with
   matches is shown. The phone plays the voice command of the match on the top of the
   list. After about 1.5 seconds, the phone dials the number, or, if the result is not the
   correct one, scroll to another entry, and select to dial the entry.

   Using voice commands to carry out a selected phone function is similar to voice dialing.
   See *Voice commands* in "My shortcuts," p. 44.

### Make a call using NFC

Touch a service tag containing a call request with the NFC detection area. See "NFC
detection," p. 63. The phone displays the callback number. Select **Call** to call the number, or
**Exit** to discard. To transmit a call request to a service tag, see "Transmit to service tags,"
p. 64.

## ■ Answer or decline a call

To answer an incoming call, press the call key, or open the phone. To end the call, press the
end key or close the phone.

To decline an incoming call if the phone is open, press the end key. To decline an incoming
call when the phone is closed, press and hold a volume key.

To mute the ringing tone, press a volume key when the phone is closed, or select **Silence** when the phone is open.

If the *Forward if busy* function is activated to forward the calls (for example, to your voice mailbox), declining an incoming call also forwards the call. See "Call," p. 49.

If a compatible headset supplied with the headset key is connected to the phone, to answer and end a call, press the headset key.

## Call waiting

To answer the waiting call during an active call, press the call key. The first call is put on hold. To end the active call, press the end key.

To activate the *Call waiting* function, see "Call," p. 49.

## ■ Options during a call

Many of the options that you can use during a call are network services. For availability, contact your service provider.

During a call, select **Options** and from the following options:

Call options are *Mute* or *Unmute*, *Contacts*, *Menu*, *Lock keypad*, *Record*, *Loudspeaker* or *Handset*.

Network services options are *Answer* or *Decline*, *Hold* or *Unhold*, *New call*, *Add to conference*, *End call*, *End all calls*, and the following:

*Touch tones* — to send tone strings

*Swap* — to switch between the active call and the call on hold

*Transfer calls* — to connect a call on hold to an active call and disconnect yourself

*Conference* — to make a conference call that allows up to five persons to take part in a conference call

*Private call* —to discuss privately in a conference call.

> **Warning:** Do not hold the device near your ear when the loudspeaker is in use, because the volume may be extremely loud.

# 4.  Write text

You can enter text (for example, when writing messages) using traditional or predictive text input. When you write text, text input indicators appear at the top of the display. indicates traditional text input. indicates predictive text input. Predictive text input allows you to write text quickly using the phone keypad and a built-in dictionary. You can enter a letter

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with a single keypress. ⬛ indicates predictive text input with *Word suggestions*. The phone predicts and completes the word before you enter all the characters.

**Abc** , **abc** , or **ABC** appears next to the text input indicator, indicating the character case. To change the character case, press **#**.

**123** indicates number mode. To change from the letter to number mode, press and hold **#**, and select *Number mode*.

To set the writing language while writing text, select **Options** > *Writing language*.

## ■ Predictive text input

To set predictive text input on, select **Options** > *Prediction on*.

> 🔆 **Tip:** To quickly set predictive text input on or off when writing text, press **#** twice, or select and hold **Options**.

1. Start writing a word using the **2** to **9** keys. Press each key only once for one letter. The entered letters are displayed underlined.

   To insert a special character, press and hold **\***, or select **Options** > *Insert symbol*. Scroll to a character, and select **Insert**.

   To write compounds words, enter the first part of the word; to confirm it, press the scroll key right. Write the next part of the word and confirm the word.

   To enter a full stop, press **1**.

2. When you finish writing the word and it is correct, to confirm it, press **0** to add space.

   If the word is not correct, press **\*** repeatedly, or select **Options** > *Matches*. When the word that you want appears, select the word and press the navigation key.

   If the ? character is displayed after the word, the word you intended to write is not in the dictionary. To add the word to the dictionary, select **Spell**. Complete the word (traditional text input is used), and select **Save**.

## ■ Traditional text input

To set traditional text input on, select **Options** > *Prediction off*.

Press a number key, **1** to **9**, repeatedly until the desired character appears. Not all characters available under a number key are printed on the key. The characters available depend on the selected writing language.

If the next letter you want is located on the same key as the present one, wait until the cursor appears, or briefly press any of the navigation keys and enter the letter.

The most common punctuation marks and special characters are available under the **1** key. For more characters, press **\***.

# 5.  Navigate the menus

The phone offers you an extensive range of functions, which are grouped into menus.

1. To access the menu, select **Menu**.

   To change the menu view, select **Options** > *Main menu view* > *List*, *Grid*, *Grid with labels*, or *Tab*.

   To rearrange the menu, scroll to the menu you want to move, and select **Options** > *Organize* > **Move**. Scroll to where you want to move the menu, and select **OK**. To save the change, select **Done** > **Yes**.

2. Scroll through the menu, and select an option (for example, *Settings*).

3. If the selected menu contains further submenus, select the one that you want (for example, *Call*).

4. If the selected menu contains further submenus, repeat step 3.

5. Select the setting of your choice.

6. To return to the previous menu level, select **Back**. To exit the menu, select **Exit**.

# 6.  Messaging

You can read, write, send, and save text, multimedia, audio, and flash messages and postcards. All messages are organized into folders.

## ■ Text messages (SMS)

With the short message service (SMS) you can send and receive text messages, and receive messages that can contain pictures (network service).

Before you can send any text message, you must save your message center number. See "Message settings," p. 27.

Your device supports the sending of text messages beyond the character limit for a single message. Longer messages will be sent as a series of two or more messages. Your service provider may charge accordingly. Characters that use accents or other marks, and characters from some language options like Chinese, take up more space limiting the number of characters that can be sent in a single message.

The message length indicator at the top of the display shows the total number of characters left and the number of messages needed for sending. For example, 673/2 means that there are 673 characters left and that the message will be sent as a series of two messages.

You may also read a text message from a service tag or write a text message to a service tag. See "NFC," p. 62.

## Write and send a SMS message

1. Select **Menu** > *Messaging* > *Create message* > *Text message*.

2. Enter the recipient's phone number in the *To:* field. Select **Add** and from the following options:

   *Recently used* — to retrieve the contacts to which you recently sent messages.

   *Open Log* — to retrieve contacts from previously incoming calls.

   *Contact* — to retrieve a phone number from *Contacts*. To send the message to multiple recipients, add the desired contacts one by one.

   *Contact group* and the desired group — to send the message to persons in a group.

3. Write your message in the *Message:* field. See "Write text," p. 19. To insert a template into the message, select **Options** > *Use template*. To see how the message will look to the recipient, select **Options** > *Preview*.

4. To send the message, select **Send**. See "Message sending," p. 23.

   To write the message to a service tag, select **Options** > *Transmit to tag*. Touch the service tag with the NFC detection area to transfer the message.

## Read and reply to an SMS message

When you have received a message, *1 message received* or the number of new messages with *messages received* are shown.

1. To view a new message, select **Show**. To view it later, select **Exit**.

   To read the message later, select **Menu** > *Messaging* > *Inbox*. If more than one message is received, select the message you want to read. 🖂 is shown if you have unread messages in *Inbox*.

2. To view the list of available options while reading a message, select **Options**.

3. To reply to a message, select **Reply** > *Text message*, *Multimedia*, *Flash message*, or *Audio message*.

   Scroll down, and write your message in the *Message:* field. See "Write text," p. 19.

   If you want to change the message type for your reply message, select **Options** > *Change message type*.

4. To send the message, select **Send**. See "Message sending," p. 23.

   To write the message to a service tag, select **Options** > *Transmit to tag*. Touch the service tag with the NFC detection area to transfer the message.

## ■ SIM messages

SIM messages are text messages that are saved to your SIM card. You can copy or move those messages to the phone memory, but not vice versa. Received messages are saved to the phone memory.

To read SIM messages, select **Menu** > *Messaging* > **Options** > *SIM messages*.

## ■ Multimedia messages (MMS)

**Note:** Only devices that have compatible features can receive and display multimedia messages. The appearance of a message may vary depending on the receiving device.

To check availability and to subscribe to the multimedia messaging network service, contact your service provider. See "Multimedia messages," p. 28.

A multimedia message can contain text, sound, images, video clips, a business card, and a calendar note. If the message is too large, the phone may not be able to receive it. Some networks allow text messages that include an internet address where you can view the multimedia message.

You cannot receive multimedia messages during a call or an active browsing session over GSM data. Because delivery of multimedia messages can fail for various reasons, do not rely solely upon them for essential communications.

### Write and send a MMS message

The wireless network may limit the size of MMS messages. If the inserted image exceeds this limit, the device may make it smaller so that it can be sent by MMS.

1. Select **Menu** > *Messaging* > *Create message* > *Multimedia.*

2. Enter your message.

   Your phone supports multimedia messages that contain several pages (slides). A message can contain a calendar note and a business card as attachments. A slide can contain text, one image, and one sound clip; or text and a video clip. To insert a slide in the message, select **New**; or select **Options** > *Insert* > *Slide.*

   To insert a file in the message, select **Insert**; or select **Options** > *Insert.*

3. To view the message before sending it, select **Options** > *Preview.*

4. To send the message, select **Send**. See "Message sending," p. 23.

5. Enter the recipient's phone number in the *To:* field. Select **Add** and from the following options:

   *Recently used* — to retrieve the contacts to which you recently sent messages.

   *Open Log* — to retrieve contacts from previously incoming calls.

   *Contact* — to retrieve a phone number from *Contacts.* To send the message to multiple recipients, add the desired contacts one by one.

   *Contact group* and the desired group — to send the message to persons in a group.

### Message sending

Copyright protections may prevent some images, music (including ringing tones), and other content from being copied, modified, transferred or forwarded.

When you finish writing your message, to send the message, select **Send**. The phone saves the message in the *Outbox* folder, and the sending starts. If you select *Save sent messages > Yes*, the sent message is saved in the *Sent items* folder. See "General settings," p. 27.

> **Note:** When the phone is sending the message, the animated ⬆ is shown. This is an indication that the message has been sent by your device to the message center number programmed into your device. This is not an indication that the message has been received at the intended destination. For more details about messaging services, check with your service provider.

It takes more time to send a multimedia message than to send a text message. While the message is being sent, you can use other functions on the phone. If an interruption occurs while the message is being sent, the phone tries to resend the message a few times. If these attempts fail, the message remains in the *Outbox* folder. You can try to resend it later.

## Cancel message sending

To cancel the sending of the messages in the *Outbox* folder, scroll to the desired message, and select **Options** > *Cancel sending*.

## Read and reply to a MMS message

> **Important:** Exercise caution when opening messages. Multimedia message objects may contain malicious software or otherwise be harmful to your device or PC.

When you receive a new multimedia message, *Multimedia message received* or the number of new messages with *messages received* is shown.

1. To read the message, select **Show**. To view it later, select **Exit**.

   To read the message later, select **Menu** > *Messaging* > *Inbox*. Scroll to the message that you want to view, and select it.  📧 is shown if you have unread messages in *Inbox*.

2. To view the whole message if the received message contains a presentation, select **Play**. To view the files in the presentation or the attachments, select **Options** > *Objects* or *Attachments*.

3. To reply to the message, select **Options** > *Reply* > *Text message*, *Multimedia*, *Postcard*, *Flash message*, or *Audio message*. Write the reply message.

   If you want to change the message type for your reply message, select **Options** > *Change message type*. The new message type may not support all the content that you have added.

4. To send the message, select **Send**. See "Message sending," p. 23.

## ■ Memory full

When you receive a message, and the memory for the messages is full, *Memory full. Unable to receive messages.* is shown. To first delete old messages, select **OK** > **Yes** and the folder.

Scroll to the desired message, and select **Delete**. If more messages are to be deleted, select **Mark**. Mark all the messages you want to delete, and select **Options** > *Delete marked*.

## ■ Folders

The phone saves received messages in the *Inbox* folder.

Messages that have not yet been sent are saved in the *Outbox* folder.

To set the phone to save the sent messages in the *Sent items* folder, see *Save sent messages* in "General settings," p. 27.

To save the message that you write and want to send later in the *Drafts* folder, select **Options** > *Save message* > *Drafts*

You can move your messages to the *Saved items* folder. To organize your *Saved items* subfolders, select **Menu** > *Messaging* > *Saved items*. To add a folder, select **Options** > *Add folder*. To delete or rename a folder, scroll to the desired folder, and select **Options** > *Rename folder* or *Delete folder*.

Your phone has templates. To create a new template, save a message as a template. To access the template list, select **Menu** > *Messaging* > *Saved items* > *Templates*.

## ■ Postcards

With the postcard messaging service (network service), create and send postcards that may contain an image and a greeting text. The postcard is sent to the service provider using multimedia messaging. The service provider prints the postcard and sends it to the postal address given with the message. Multimedia messaging service must be activated before this service can be used.

Before you can use the postcard service you must subscribe to the service. To check the availability, and costs, and to subscribe to the service, contact your service provider.

### Send a postcard

Select **Menu** > *Messaging* > *Create message* > *Postcard*. Scroll to the editor fields, enter the name, the postal address, and the city of the recipient (mandatory editor fields, marked by a **\***).

Scroll to the image field and select **Insert** > *Open Gallery* to insert an image from *Gallery* or *New image* to insert a recent photo; then write your greeting text. Select **Options** to see the options available. To send the postcard, select the graphical key or **Options** > *Send*.

## ■ Flash messages

Flash messages are text messages that are instantly displayed upon reception. Flash messages are not automatically saved.

## Write a flash message

Select **Menu** > *Messaging* > *Create message* > *Flash message*. Enter the recipient's phone number in the *To:* field. Scroll down, and write your message in the *Message:* field. The maximum length of a flash message is 70 characters. To insert a blinking text into the message, select **Options** > *Insert blink character* to set a marker. The text behind the marker blinks until a second marker is inserted.

## Receive a flash message

A received flash message is indicated with *Message:* and a few words from the beginning of the message. To read the message, select **Read**. To extract phone numbers, and Web site addresses from the current message, select **Options** > *Use detail*. To save the message, select **Save** and the folder in which you want to save it.

## ■ Nokia Xpress audio messaging

You can use the multimedia message service to create and send an audio message in a convenient way. Multimedia messaging service must be activated before you can use audio messages.

## Create an audio message

1. Select **Menu** > *Messaging* > *Create message* > *Audio message*. The recorder opens. To use the recorder, see "Voice recorder," p. 58.

2. Speak your message.

3. Enter the recipient's phone number in the *To:* field. select **Add** and from the following options:

   *Recently used* — to retrieve the contacts to which you recently sent messages.

   *Open Log* — to retrieve contacts from previously incoming calls.

   *Contact* — to retrieve a phone number from *Contacts*. To send the message to multiple recipients, add the desired contacts one by one.

   *Contact group* and the desired group — to send the message to persons in a group.

4. To send the message, select **Send**.

## Receive an audio message

When your phone receives an audio message, *1 audio message received* is displayed. To open the message, select **Play**, or, if more than one message is received, select **Show** > **Play**. To listen to the message later, select **Exit**. To see the available options, select **Options**.

## ■ Voice messages

The voice mailbox is a network service and you may need to subscribe to it. For more information and for your voice mailbox number, contact your service provider.

To call your voice mailbox, select **Menu** > *Messaging* > *Voice messages* > *Listen to voice messages*. To enter, find, or edit your voice mailbox number, select *Voice mailbox number*.

If supported by the network, ꔅ indicates new voice messages. To call your voice mailbox number, select **Listen**.

## ■ Info messages

With *Info messages* (network service), you can receive messages on various topics from your service provider. To check availability, topics, and the relevant topic numbers, contact your service provider.

## ■ Service commands

Select **Menu** > *Messaging* > *Service commands*. Write and send service requests (also known as USSD commands), such as activation commands for network services, to your service provider.

## ■ Delete messages

To delete messages, select **Menu** > *Messaging* > *Delete messages* > *By message* to delete single messages, *By folder* to delete all messages from a folder, or *All messages*. If a folder contains unread messages, the phone asks whether you want to delete them also.

## ■ Message settings

### General settings

General settings are common for text and multimedia messages.

Select **Menu** > *Messaging* > *Message settings* > *General settings* and from the following options:

*Save sent messages* > *Yes* — to set the phone to save the sent messages in the *Sent items* folder.

*Overwriting in Sent items* > *Allowed* — to set the phone to overwrite the old sent messages with the new ones when the message memory is full. This setting is shown only if you set *Save sent messages* > *Yes*.

*Font size* — to select the font size used in messages.

*Graphical smileys* > *Yes* — to set the phone to replace character-based smileys with graphical ones.

### Text messages

The text message settings affect the sending, receiving, and viewing of text messages.

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Select **Menu** > *Messaging* > *Message settings* > *Text messages* and from the following options:

*Delivery reports* > *On* — to ask the network to send delivery reports about your messages (network service).

*Message centers* > *Add center* — to set the phone number and name of the message center that is required for sending text messages. You receive this number from your service provider.

*Message center in use* — to select the message center in use.

*E-mail message centers* > *Add center* — to set the phone numbers and name of the e-mail center for sending SMS e-mails.

*E-mail center in use* — to select the SMS e-mail message center in use.

*Message validity* — to select the length of time for which the network attempts to deliver your message.

*Messages sent via* — to select the format of the messages to be sent: *Text*, *Page*, or *Fax* (network service).

*Use packet data* > *Yes* — to set GPRS as the preferred SMS bearer.

*Character support* > *Full* — to select all characters in the messages to be sent as viewed. If you select *Reduced*, characters with accents and other marks may be converted to other characters. When writing a message, you can preview it to see how the message will look to the recipient. See "Write and send a SMS message," p. 22.

*Reply via same center* > *Yes* — to allow the recipient of your message to send you a reply using your message center (network service).

## Multimedia messages

The message settings affect the sending, receiving, and viewing of multimedia messages.

You may receive the configuration settings for multimedia messaging as a configuration message. See "Configuration settings service," p. 9. You can also enter the settings manually. See "Configuration," p. 51.

Select **Menu** > *Messaging* > *Message settings* > *Multimedia messages* and from the following options:

*Delivery reports* > *On* — to ask the network to send delivery reports about your messages (network service).

*Image size (multimedia)* — to set the image size in multimedia messages. Before sending, images will be reduced to the selected size.

*Default slide timing* — to define the default time between slides in multimedia messages.

*Allow multimedia recept.* — to receive or block the multimedia message, select *Yes* or *No*. If you select *In home network*, you cannot receive multimedia messages when outside your home network. The default setting of the multimedia message service is generally *In home network*. The availability of this menu depends on your phone.

*Incoming multim. msgs.* — to allow the reception of multimedia messages automatically, manually after being prompted, or to reject the reception. This setting is not shown if *Allow multimedia recept.* is set to *No*.

*Allow advertisements* — to receive or reject advertisements. This setting is not shown if *Allow multimedia recept.* is set to *No*, or *Incoming multim. msgs.* is set to *Reject*.

*Configuration settings* > *Configuration* — only the configurations that support multimedia messaging are shown. Select a service provider, *Default*, or *Personal configuration* for multimedia messaging. Select *Account* and a multimedia messaging service account contained in the active configuration settings.

# 7.  Call log

The phone registers your missed, received, and dialed calls if the network supports it and the phone is switched on and within the network service area.

To view the information on your calls, select **Menu** > *Log* > *Missed calls*, *Received calls*, or *Dialed numbers*. To view your recent missed and received calls and the dialed numbers chronologically, select *Call log*. To view the contacts to whom you most recently sent messages, select *Message recipients*.

To view the approximate information on your recent communications, select **Menu** > *Log* > *Call timers*, *Packet data counter*, or *Packet data timer*.

To view how many text and multimedia messages you have sent and received, select **Menu** > *Log* > *Message log*.

> **Note:** The actual invoice for calls and services from your service provider may vary, depending on network features, rounding off for billing, taxes, and so forth.

Some timers may be reset during service or software upgrades.

## ■ Positioning information

The network may send you a location request. You can ensure that the network will deliver location information of your phone only if you approve it (network service). Contact your service provider to subscribe and to agree upon the delivery of location information.

To accept or reject the location request, select **Accept** or **Reject**. If you miss the request, the phone automatically accepts or rejects it according to what you have agreed with your service provider. The phone displays *1 missed position request*. To view the missed location request, select **Show**.

To view the information on the 10 most recent privacy notifications and requests or to delete them, select **Menu** > *Log* > *Positioning* > *Position log* > *Open folder* or *Delete all*.

# 8. Web

You can access various mobile internet services with your phone browser.

**Important:** Use only services that you trust and that offer adequate security and protection against harmful software.

Check the availability of these services, pricing, fees, and instructions with your service provider.

With the phone browser you can view the services that use wireless markup language (WML) or extensible hypertext markup language (XHTML) on their pages. Appearance may vary due to screen size. You may not be able to view all details of the internet pages.

## ■ Set up browsing

You may receive the configuration settings required for browsing as a configuration message from the service provider that offers the service that you want to use. See "Configuration settings service," p. 9. You can also enter all the configuration settings manually. See "Configuration," p. 51.

## ■ Connect to a service

Ensure that the correct configuration settings of the service are activated.

1. To select the settings for connecting to the service, select **Menu** > *Web* > *Settings* > *Configuration settings*.

2. Select *Configuration*. Only the configurations that support browsing service are shown. Select a service provider, *Default*, or *Personal configuration* for browsing. See "Set up browsing," p. 30.

3. Select *Account* and a browsing service account contained in the active configuration settings.

4. Select *Display terminal window* > *Yes* to perform manual user authentication for intranet connections.

Make a connection to the service in one of the following ways:

- Select **Menu** > *Web* > *Home*; or in the standby mode, press and hold **0**.

- To select a bookmark of the service, select **Menu** > *Web* > *Bookmarks*.

- To select the last URL, select **Menu** > *Web* > *Last web address*.

- To enter the address of the service, select **Menu** > *Web* > *Go to address*. Enter the address of the service, and select **OK**.

## ■ Browse pages

After you make a connection to the service, you can start browsing its pages. The function of the phone keys may vary in different services. Follow the text guides on the phone display. For more information, contact your service provider.

### Browse with phone keys

To browse through the page, scroll in any direction.

To select a highlighted item, press the call key or **Select**.

To enter letters and numbers, press the **0** to **9** keys.

To enter special characters, press **\***.

### Options while browsing

Select from the following options:

*Home* — to return to your start page.

*Shortcuts* — to open a new list of options that are specific to the page. This option is only available if the page contains shortcuts.

*Add bookmark* — to save the page as a bookmark.

*Bookmarks* — to access the list of bookmarks. See "Bookmarks," p. 31.

*Page options* — to show the list of options for the active page.

*History* — to get a list showing the last visited URLs.

*Downloads* — to show the list of bookmarks for downloading.

*Other options* — to show a list of other options.

*Reload* — to reload and update the current page.

The service provider may also offer other options.

### Direct calling

While browsing, you can make a phone call, and save a name and a phone number from a page.

## ■ Bookmarks

You can save page addresses as bookmarks in the phone memory.

1. While browsing, select **Options** > *Bookmarks*; or in the standby mode, select **Menu** > *Web* > *Bookmarks*.

2. Scroll to a bookmark, and select it, or press the call key to make a connection to the page associated with the bookmark.

3. Select **Options** to view, edit, delete, or send the bookmark; to create a new bookmark; or to save the bookmark to a folder.

   Select *Transmit to tag* to write the bookmark to a service tag.

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Your device may have preinstalled bookmarks and links for third-party internet sites. You may also access other third-party sites through your device. Third-party sites are not affiliated with Nokia, and Nokia does not endorse or assume liability for them. If you choose to access such sites, you should take precautions for security or content.

### Receive a bookmark

You can receive bookmarks as a text message or by touching a service tag that contains a bookmark with the NFC detection area.

When you have received a bookmark that is sent as a bookmark, *1 bookmark received* is displayed. To view the bookmark, select **Show**.

## ■ Appearance settings

While browsing, select **Options** > *Other options* > *Appearance settings*; or in the standby mode, select **Menu** > *Web* > *Settings* > *Appearance settings* and from the following options:

*Text wrapping* > *On* — to set the text to continue on the next line on the display. If you select *Off*, the text is abbreviated.

*Font size* — to set the font size.

*Show images* > *No* — to hide images on the page. This can speed up the browsing of pages that contain a lot of images.

*Alerts* — select from the following options:

- *Alert for unsecure conn.* > *Yes* — to set the phone to alert when a secure connection changes to a nonsecure one during browsing.
- *Alert for unsecure items* > *Yes* — to set the phone to alert when a secure page contains a nonsecure item. These alerts do not guarantee a secure connection. For more information, see "Browser security," p. 34.

*Character encoding* — select from the following options:

- *Content encoding* — to select the encoding for the browser page content.
- *Unicode (UTF-8) web add.* > *On* — to set the phone to send a URL as a UTF-8 encoding. You may need this setting when you access a Web page created in foreign language.

*Screen size* > *Full* or *Small*— to set the screen layout.

*JavaScript* > *Enable* — to enable the Java scripts.

## ■ Security settings

### Cookies

A cookie is data that a site saves in the cache memory of your phone. Cookies are saved until you clear the cache memory. See "Cache memory," p. 34.

While browsing, select **Options** > *Other options* > *Security* > *Cookie settings*; or in the standby mode, select **Menu** > *Web* > *Settings* > *Security settings* > *Cookies.* To allow or prevent the phone from receiving cookies, select *Allow* or *Reject.*

### Scripts over secure connection

You can select whether to allow the running of scripts from a secure page. The phone supports WML scripts.

While browsing, to allow the scripts, select **Options** > *Other options* > *Security* > *WMLScript settings*, or, in the standby mode, select **Menu** > *Web* > *Settings* > *Security settings* > *WMLScripts in sec. conn.* > *Allow.*

## ■ Download settings

To automatically save all downloaded files in *Gallery*, select **Menu** > *Web* > *Settings* > *Downloading settings* > *Automatic saving* > *On.*

## ■ Service inbox

The phone is able to receive service messages sent by your service provider (network service). Service messages are notifications (for example, news headlines), and they may contain a text message or an address of a service.

To access the *Service inbox* in the standby mode, when you have received a service message, select **Show**. If you select **Exit**, the message is moved to the *Service inbox.* To access the *Service inbox* later, select **Menu** > *Web* > *Service inbox.*

To access the *Service inbox* while browsing, select **Options** > *Other options* > *Service inbox.* Scroll to the message you want, and to activate the browser and download the marked content, select **Retrieve**. To display detailed information on the service notification or to delete the message, select **Options** > *Details* or *Delete.*

### Service inbox settings

Select **Menu** > *Web* > *Settings* > *Service inbox settings.*

To set whether you want to receive service messages, select *Service messages* > *On* or *Off.*

To set the phone to receive service messages only from content authors approved by the service provider, select *Message filter* > *On.* To view the list of the approved content authors, select *Trusted channels.*

To set the phone to automatically activate the browser from the standby mode when the phone has received a service message, select *Automatic connection* > *On.* If you select *Off*, the phone activates the browser only after you select **Retrieve** when the phone has received a service message.

# ■ Cache memory

A cache is a memory location that is used to store data temporarily. If you have tried to access or have accessed confidential information requiring passwords, empty the cache after each use. The information or services you have accessed is stored in the cache.

To empty the cache while browsing, select **Options** > *Other options* > *Clear the cache*; in the standby mode, select **Menu** > *Web* > *Clear the cache*.

# ■ Browser security

Security features may be required for some services, such as online banking or shopping. For such connections you need security certificates and possibly a security module, which may be available on your SIM card. For more information, contact your service provider.

## Security module

The security module improves security services for applications requiring a browser connection, and allows you to use a digital signature. The security module may contain certificates as well as private and public keys. The certificates are saved in the security module by the service provider.

To view or change the security module settings, select **Menu** > *Settings* > *Security* > *Security module settings*.

## Certificates

**Important:** Even if the use of certificates makes the risks involved in remote connections and software installation considerably smaller, they must be used correctly in order to benefit from increased security. The existence of a certificate does not offer any protection by itself; the certificate manager must contain correct, authentic, or trusted certificates for increased security to be available. Certificates have a restricted lifetime. If Expired certificate or Certificate not valid yet is shown even if the certificate should be valid, check that the current date and time in your device are correct.

Before changing any certificate settings, you must make sure that you really trust the owner of the certificate and that the certificate really belongs to the listed owner.

There are three kinds of certificates: server certificates, authority certificates, and user certificates. You may receive these certificates from your service provider. Authority certificates and user certificates may also be saved in the security module by the service provider.

To view the list of the authority or user certificates downloaded into your phone, select **Menu** > *Settings* > *Security* > *Authority certificates* or *User certificates*.

 is displayed during a connection, if the data transmission between the phone and the content server is encrypted.

The security icon does not indicate that the data transmission between the gateway and the content server (or place where the requested resource is stored) is secure. The service provider secures the data transmission between the gateway and the content server.

### Digital signature

You can make digital signatures with your phone if your SIM card has a security module. Using the digital signature can be the same as signing your name to a paper bill, contract, or other document.

To make a digital signature, select a link on a page, for example, the title of the book you want to buy and its price. The text to sign, which may include the amount and date, is shown.

Check that the header text is *Read* and that the digital signature icon 🔒🖋 is shown.

If the digital signature icon does not appear, there is a security breach, and you should not enter any personal data such as your signing PIN.

To sign the text, read all of the text first, and select **Sign**.

The text may not fit within a single screen. Therefore, make sure to scroll through and read all of the text before signing.

Select the user certificate you want to use. Enter the signing PIN (see "Access codes," p. 8), and select **OK**. The digital signature icon disappears, and the service may display a confirmation of your purchase.

# 9.  My files

The *My files* menu contains the *Gallery* and *Applications* menus.

## ■  Gallery

In this menu you can manage images, video clips, music files, themes, graphics, tones, recordings, and received files. These files are stored in the phone memory or an attached microSD memory card and may be arranged in folders.

Your phone supports an activation key system to protect acquired content. Always check the delivery terms of any content and activation key before acquiring them, as they may be subject to a fee.

Copyright protections may prevent some images, music (including ringing tones), and other content from being copied, modified, transferred or forwarded.

To see the list of folders, select **Menu** > *My files* > *Gallery*.

To see the available options of a folder, select a folder > **Options**.

To view the list of files in a folder, select a folder > **Open**.

To see the available options of a file, select a file > **Options**.

## Print images

Xpress**Print**

Your device supports Nokia XPressPrint. To connect it to a compatible
printer use a data cable or send the image via Bluetooth to a printer supporting Bluetooth
technology. See "Connectivity," p. 45.

You may also connect the phone to a printer supporting Bluetooth technology by touching a
service tag on the printer containing the Bluetooth connection data with the NFC detection
area. See "NFC," p. 62.

You can print images that are in the JPEG format. The images taken with the camera are
automatically saved in the JPEG format.

Select the image you want to print and **Options** > *Print*.

## Memory card

Keep all memory cards out of the reach of small children.

You can use the microSD memory card to store your multimedia files such as video clips,
music tracks, and sound files, photos, and messaging data, and to back up information from
phone memory.

Details of how you can use the memory card with other features and applications of your
phone are given in the sections describing these features and applications. To insert and
remove the microSD memory card see "Memory card installation," p. 12 and "Remove the
microSD card," p. 12. The following options may can also be accessed from the *Gallery*.

### Format the memory card

When a memory card is formatted, all data on the card is permanently lost. Some memory
cards are supplied preformatted and others require formatting. Consult your retailer to find
out if you must format the memory card before you can use it.

1. Select **Menu** > *My files* > *Applications* and the memory card folder    .

2. Select **Options** > *Format memory card*.

3. Select **Yes** to confirm.

4. When formatting is complete, enter a name for the memory card (up to 11 letters
   or numbers).

### Lock the memory card

To set a password to lock your memory card to help prevent unauthorized use, select
**Options** > *Set password*.

You are asked to enter and confirm your password. The password can be up to eight
characters long. The password is stored in your phone and you do not have to enter it again
while you are using the memory card on the same phone. If you want to use the memory
card on another phone, you are asked for the password.

**Unlock a memory card**

If you insert another password-protected memory card into your phone, you are prompted to enter the password of the card. To unlock the card, select **Options** > *Delete password*.

Once the password is removed, the memory card is unlocked and can be used on another phone without a password.

### Check memory consumption

To check the memory consumption of different data groups and the available memory for installing new applications or software on your memory card, select **Options** > *Details*.

## ■ Applications

In this menu you can manage applications and games. These files are stored in the phone memory or an attached microSD memory card and may be arranged in folders.

For options to format or lock and unlock the memory card see "Memory card," p. 36.

### Launch a game

Your phone software includes some games.

Select **Menu** > *My files* > *Applications* > *Games*. Scroll to the desired game, and select **Open**.

To set sounds, lights, and shakes for the game, select **Menu** > *My files* > *Applications* > **Options** > *Application settings*.

For more options related to a game, see "Some application options," p. 37.

### Launch an application

Your phone software includes some Java applications.

Select **Menu** > *My files* > *Applications* > *Collection*. Scroll to an application, and select **Open**.

### Some application options

*Delete* — to delete the application from the phone.

*Details* — to give additional information about the application.

*Update version* — to check if a new version of the application is available for download from *Web* (network service).

*Application access* — to restrict the application from accessing the network. Different categories are shown. Select in each category one of the available permissions.

*Web page* — to provide further information or additional data for the application from an internet page (network service). It is only shown if an internet address has been provided with the application.

## Download an application

Your phone supports J2ME Java applications. Make sure that the application is compatible with your phone before downloading it.

**Important:** Only install and use applications and other software from sources that offer adequate security and protection against harmful software.

You can download new Java applications and games in different ways.

Use the Nokia Application Installer from PC Suite to download the applications to your phone, or select **Menu** > *My files* > *Applications* > **Options** > *Downloads* > *Application downloads*; the list of available bookmarks is shown. See "Bookmarks," p. 31.

For the availability of different services, pricing, and fees, contact your service provider.

Your device may have preinstalled bookmarks and links for third-party internet sites. You may also access other third-party sites through your device. Third-party sites are not affiliated with Nokia, and Nokia does not endorse or assume liability for them. If you choose to access such sites, you should take precautions for security or content.

## Presenter

The Presenter enables you to control slide presentations (compatible with Microsoft Office PowerPoint), a software DVD, an MP3 player, or other PC applications remotely from your device.

To use applications other than slide presentations and desktop mode, you must create a corresponding custom profile on the PC application.

Before you can use the application you must do the following:

1. Install the Nokia Presenter PC application on your PC. This component is available for download on the Nokia Web site at www.nokiausa.com.

2. Launch and configure the PC component. Make sure that the selected incoming Bluetooth serial port (COM port) corresponds to the one defined in the Bluetooth software settings on the Bluetooth device of your PC. For details, refer to the PC component documentation and "Set up a Bluetooth connection," p. 46.

3. Open the slide presentation, or start the application you want to control remotely from your phone.

Select *Applications* > *Collection* > *Presenter* > **Connect** and the device you want to connect to.

When the Bluetooth Connection Successful dialog appears on your PC screen, you must click on it to confirm the Bluetooth connection.

The list of available application types is displayed. Select **Open** to access the desired application. Select **Options** > *Settings* to set the font size for the speaker notes, and *Presentation timer (in minutes)* to optimize the slide presentation time available. To save the settings, select **Options** > *Back*.

After you have selected the slide presentation, you browse or skip slides, or jump ahead, by using the four-way navigation key. To view your speaker notes, select **Notes**. To point things out on the slides, select *Pointer* to activate a small black round marker, that you control with the four-way navigation key. Select **Options** > *Slide list* to return to the slide list. Select **Options** > *Applications list* to return to the list of applications.

To control the mouse pointer (the cursor) remotely from the phone, select the desktop mode. After you open the desktop, the phone automatically controls your mouse pointer. To return to the list of applications, select **Options** > *Applications list*.

To quit the Presenter, select **Options** > *Exit*.

## Secure applications

The folder *Secure applications* contains downloaded secure applications, used for payment or ticketing purposes. See "NFC," p. 62.

# 10. Contacts

You can save names and phone numbers (contacts) in the phone memory and in the SIM card memory.

The phone memory may save contacts with additional details, such as various phone numbers and text items. You can also save an image for a limited number of contacts.

The SIM card memory can save names with one phone number attached to them. The contacts saved in the SIM card memory are indicated by ▣ .

## ■ Find a contact

Select **Menu** > *Contacts* > *Names*. Scroll through the list of contacts, or enter the first characters of the name you are trying to find.

## ■ Save names and phone numbers

Names and numbers are saved in the used memory. To save a name and phone number, select **Menu** > *Contacts* > *Names* > **Options** > *Add new contact*. Enter the last name, first name, the phone number and select **Save**.

## ■ Save details

In the phone memory for contacts you can save different types of phone numbers, and short text items per name. You can also select a tone or a video clip for a contact.

The first number you save is automatically set as the default number, and it is indicated with a frame around the number type indicator (for example, 📞). When you select a name from contacts (for example, to make a call), the default number is used unless you select another number.

1. Make sure that the memory in use is *Phone* or *Phone and SIM*. See "Settings," p. 41.

2. Find the contact to which you want to add a detail, and select **Details** > **Options** > *Add detail*. Select from the options available.

## ■ Transmit a call request to a service tag

Select **Menu** > *Contacts* > *Names* and the desired contact. Select **Details** and a phone number. To transmit the number as call request to a service tag, select **Options** > *Transmit call request* and touch the service tag with NFC detection area. See also "NFC," p. 62.

## ■ Copy or move contacts

To copy or move names and phone numbers from the phone contact memory to the SIM card memory, or vice versa, select **Options** > *Copy contact* or *Move contact*. The SIM card memory can save names with one phone number attached to them.

To copy or move more than one contact from the phone contact memory to the SIM card memory, or vice versa, select **Menu** > *Contacts* > *Copy contacts* or *Move contacts*.

## ■ Edit contact details

Find the contact you want to edit, and select **Details**. To edit a name, number, text item, or to change the image, select **Options** > *Edit*. To change the number type, scroll to the desired number, and select **Options** > *Change type*. To set the selected number as the default number, select *Set as default*.

## ■ Synchronize all

Synchronize your calendar, contacts data, and notes with a remote internet server (network service). For details see "Synchronize from a server," p. 49.

## ■ Delete contacts

To delete all the contacts and the details attached to them from the phone or SIM card memory, select **Menu** > *Contacts* > *Delete all contacts* > *From phone memory* or *From SIM card*. Confirm with the security code.

To delete a contact, find the desired contact, and select **Options** > *Delete contact*.

To delete a number, text item, or an image attached to the contact, find the contact, and select **Details**. Scroll to the desired detail, and select **Options** > *Delete* and from the options available. Deleting an image or video clip from contacts does not delete it from *Gallery*.

## ■ Business cards

You can send and receive a person's contact information from a compatible device that supports the vCard standard as a business card.

To send a business card, find the contact whose information you want to send, and select **Details** > **Options** > *Send business card* > *Via multimedia*, *Via text message*, *via infrared*, or *Via Bluetooth*.

To write the business card to a service tag select **Options** > *Transmit bus. card* and touch the service tag with the NFC detection area. See "NFC," p. 62.

When you have received a business card either over the air or by touching a service tag, select **Show** > **Save** to save the business card in the phone memory. To discard the business card, select **Exit** > **Yes**.

## ■ Settings

Select **Menu** > *Contacts* > *Settings* and from the following options:

*Memory in use* — to select the SIM card or phone memory for your contacts. Select *Phone and SIM* to recall names and number from both memories. In that case, when you save names and numbers, they are saved in the phone memory.

*Contacts view* — to select how the names and numbers in *Contacts* are displayed.

*Name display* — to select whether the contact's first or last name is displayed first.

*Font size* — to set the font size for the list of contacts.

*Memory status* — to view the free and used memory capacity.

## ■ Groups

Select **Menu** > *Contacts* > *Groups* to arrange the names and phone numbers saved in the memory into caller groups with different ringing tones and group images.

## ■ 1–touch dialing

To assign a number to a 1-touch-dialing key, select **Menu** > *Contacts* > *1-touch dialing*, and scroll to the 1-touch-dialing number that you want.

Select **Assign**, or, if a number has already been assigned to the key, select **Options** > *Change*. Select **Find** and the contact you want to assign. If the *1-touch dialing* function is off, the phone asks whether you want to activate it. See also *1-touch dialing* in "Call," p. 49.

To make a call using the 1-touch-dialing keys, see "1-touch dialing," p. 18.

## ■ Service and my numbers

Select **Menu** > *Contacts* and from one of these submenus:

*Service numbers* — to call the service numbers of your service provider if the numbers are included on your SIM card (network service)

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*My numbers* — to view the phone numbers assigned to your SIM card, if the numbers are included on your SIM card.

# 11. Settings

Use this menu to set or change your profiles, themes, tone settings, main and mini display settings, time and date settings, personal shortcuts, connectivity settings, call settings, phone settings, enhancement settings, configuration settings, security settings, and to restore factory settings.

## ■ Profiles

Your phone has various setting groups called profiles, for which you can customize the phone tones for different events and environments.

Select **Menu** > *Settings* > *Profiles*, the desired profile, and from the following options:

*Activate* — to activate the selected profile

*Customize* — to customize the profile. Select the setting you want to change, and make the changes

*Timed* — to set the profile to be active until a certain time up to 24 hours, and set the end time. When the time set for the profile expires, the previous profile that was not timed becomes active.

## ■ Themes

A theme contains many elements for personalizing your phone, such as wallpaper, screen saver, color scheme, and a ringing tone.

Select **Menu** > *Settings* > *Themes* and from the following options:

*Select theme* — to set a theme in your phone. A list of folders in *Gallery* opens. Open the *Themes* folder, and select a theme.

*Theme downloads* — to open a list of links to download more themes.

## ■ Tones

You can change the tone settings of the selected active profile.

Select **Menu** > *Settings* > *Tones*. You can find the same settings in the *Profiles* menu. See *Customize* in "Profiles," p. 42.

To set the phone to ring only for calls from phone numbers that belong to a selected caller group, select *Alert for*. Scroll to the caller group you want or *All calls*, and select **Mark**.

Select **Options** > *Save* to save the settings or *Cancel* to leave the settings unchanged.

If you select the highest ringing tone level, the ringing tone reaches its highest level after a few seconds.

A theme may contain a tone that sounds when you open and close the phone. To switch off the tone, change the setting in *Other tones:*. Please note that this setting also switches off the warning tones.

## ■ Main display

Select **Menu** > *Settings* > *Main display* and from the available options.

### Standby mode settings

Select *Standby mode settings* and from the following options:

*Active standby* — to switch the active standby mode on or off and to organize and personalize the active standby mode. See "Active standby," p. 15.

*Wallpaper* — to add the background image to the display in the standby mode.

*Fold animation* — to set your phone to display an animation when you open and close the phone.

*Standby font color* — to select the color for the texts on the display in the standby mode.

*Navigation key icons* — to display the icons of the current navigation key shortcuts in the standby mode when active standby is off.

*Operator logo* — to set your phone to display or hide the operator logo. The menu is dimmed, if you have not saved the operator logo. For more information on availability of an operator logo, contact your service provider.

*Cell info display* > *On* — to display the cell identity, if available from the network.
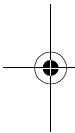
### Screensaver

Select *Screen saver* and from the following options:

*On* — to activate the screen saver for the main display

*Screen savers* — select from the following options:

- *Image* — to choose an image or a graphic from the *Gallery*
- *Slide set* and a folder in the *Gallery* — to use the images in the folder as a slide set
- *Video clip* and a video clip from the *Gallery* — to run a video clip as screensaver (only on the main display)
- *Open camera* — to take a new photo as screensaver
- *Analog clock* or *Digital clock* — to use a clock as screensaver

*Graphic downloads* — to download more images for the screen saver

*Time-out* — to set the time after which the screen saver is activated.
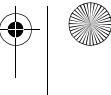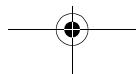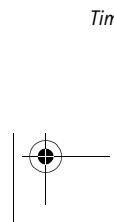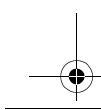
## ■ Mini display

Select **Menu** > *Settings* > *Mini display*. You can change the settings for *Wallpaper*, *Screen saver*, and *Fold animation*.

## ■ Time and date

To change the time, time zone, and date settings, select **Menu** > *Settings* > *Time and date* > *Clock*, *Date*, or *Auto-update of date/time* (network service).

When traveling to a different time zone, select **Menu** > *Settings* > *Time and date* > *Clock* > *Time zone* and the time zone of your location in terms of the time difference with respect to Greenwich Mean Time (GMT) or Universal Time Coordinated (UTC). The time and date are set according to the time zone and enable your phone to display the correct sending time of received text or multimedia messages. For example, GMT -5 denotes the time zone for New York (USA), 5 hours west of Greenwich/London (UK).

## ■ My shortcuts

With personal shortcuts you get quick access to often used functions of the phone.

### Left selection key

To select a function from the list for the left selection key, select **Menu** > *Settings* > *My shortcuts* > *Left selection key*. See also "Standby mode," p. 14.

If the left selection key is **Go to**, to activate a function in the standby mode, select **Go to** > **Options** and from the following options:

*Select options* — to add a function to the shortcut list or to remove one. Scroll to the function, and select **Mark** or **Unmark**.

*Organize* — to rearrange the functions on your personal shortcut list. Scroll to the function you want to move, and select **Move**. Scroll to where you want to move the function, and select **OK**.

### Right selection key

To select a function from the list for the right selection key, select **Menu** > *Settings* > *My shortcuts* > *Right selection key*. See also "Standby mode," p. 14.

### Shortcut bar

To choose and reorder applications shown by the shortcut bar in the active standby mode, select **Menu** > *Settings* > *My shortcuts* > *Shortcut bar*, and select from the following options:

*Select links* — mark the desired application in the list or in a folder. Select *Done* > *Yes* to confirm the selection.

*Organise links* — to reorder the applications in the shortcut bar. Select an application, *Move*, and move it to an other position. Select *OK* to confirm. Select *Done* > *Yes* to save the shortcut sequence.

## Navigation key

To select shortcut functions for the scroll keys, select **Menu** > *Settings* > *My shortcuts* > *Navigation key*. Scroll to the desired key, and select **Change** and a function from the list. To remove a shortcut function from the key, select *(empty)*. To reassign a function for the key, select **Assign**. See "Shortcuts in the standby mode," p. 15.
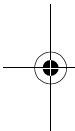
## Voice commands

To call contacts and carry out phone functions, say the voice commands. Voice commands are language-dependent. To set the language, see *Voice playback language* in "Phone," p. 50.

To select the phone functions to activate with a voice commands, select **Menu** > *Settings* > *My shortcuts* > *Voice commands* and a folder. Scroll to a function. 🔁 indicates that the voice tag is activated. To activate the voice tag, select **Add**. To play the activated voice command, select **Play**. To use voice commands, see "Enhanced voice dialing," p. 18.
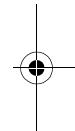
To manage the voice commands, scroll to a phone function, and select from the following options:

*Edit* or *Remove* — to change or deactivate the voice command of the selected function

*Add all* or *Remove all* — to activate or deactivate voice commands to all functions in the voice commands list.

## ■ Connectivity

You can connect the phone to a compatible device using a Bluetooth wireless technology or a USB data cable connection. You can also define the settings for EGPRS dial-up connections.

## Bluetooth wireless technology

This device is compliant with Bluetooth Specification 2.0 + EDR supporting the following profiles: generic access, generic object exchange, hands-free, headset, object push, file transfer, dial-up networking, SIM access, and serial port. To ensure interoperability between other devices supporting Bluetooth technology, use Nokia approved enhancements for this model. Check with the manufacturers of other devices to determine their compatibility with this device.
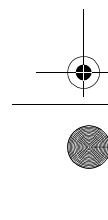
There may be restrictions on using Bluetooth technology in some locations. Check with your local authorities or service provider.
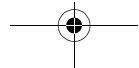
Features using Bluetooth technology or allowing such features to run in the background while using other features, increase the demand on battery power and reduce the battery life.
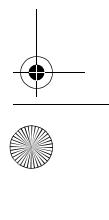
Bluetooth technology allows you to connect the phone to a compatible Bluetooth device within 10 meters (32 feet). Since devices using Bluetooth technology communicate using radio waves, your phone and the other devices do not need to be in direct line-of-sight, although the connection can be subject to interference from obstructions such as walls or from other electronic devices.

### Set up a Bluetooth connection

Select **Menu** > *Settings* > *Connectivity* > *Bluetooth* and from the following options:

*Bluetooth* > *On* or *Off* — to activate or deactivate the Bluetooth function.  indicates that Bluetooth is activated.

*Search for audio enhanc.* — to find compatible Bluetooth audio devices. Select the device that you want to connect to the phone.

*Paired devices* — to find any Bluetooth device in range. Select **New** to list any Bluetooth device in range. Scroll to a device, and select **Pair**. Enter an agreed Bluetooth passcode of the device (up to 16 characters) to associate (pair) the device to your phone. You must only give this passcode when you connect to the device for the first time. Your phone connects to the device, and you can start data transfer.

### Bluetooth wireless connection

Select **Menu** > *Settings* > *Connectivity* > *Bluetooth*. To check which Bluetooth connection is currently active, select *Active devices*. To view a list of Bluetooth devices that are currently paired with the phone, select *Paired devices*.

Select **Options** to access available options depending on the status of the device and the Bluetooth connection.

### Bluetooth settings

To define how your phone is shown to other Bluetooth devices, select **Menu** > *Settings* > *Connectivity* > *Bluetooth* > *Bluetooth settings* > *My phone's visibility* or *My phone's name*.

If you are concerned about security, turn off the Bluetooth function, or set **My phone's visibility** to **Hidden**. Always accept only Bluetooth communication from others with whom you agree.

## Infrared

You can set up the phone to send and receive data through its infrared (IR) port. To use an IR connection, the device with which you want to establish a connection must be IrDA compliant. You can send or receive data to or from a compatible phone or data device (for example, a computer) through the IR port of your phone.

Do not point the IR (infrared) beam at anyone's eyes or allow it to interfere with other IR devices. Infrared devices are Class 1 laser products.

When sending or receiving data, ensure that the IR ports of the sending and receiving devices are pointing at each other and that there are no obstructions between the devices.

To activate the IR port of your phone to receive data using IR, select **Menu** > *Settings* > *Connectivity* > *Infrared*.

To deactivate the IR connection, select **Menu** > *Settings* > *Connectivity* > *Infrared*. When the phone displays *Deactivate infrared?*, select **Yes**.

If data transfer is not started within 2 minutes after the activation of the IR port, the connection is cancelled and must be started again.

### IR connection indicator

When ▶ⅢⅢ is shown continuously, the IR connection is activated, and your phone is ready to send or receive data through its IR port.

When ▶ⅢⅢ blinks, your phone is trying to connect to the other device, or a connection has been lost.

## Packet data (GPRS)

General Packet Radio Service (GPRS) is a network service that allows mobile phones to send and receive data over an Internet Protocol (IP) based network. It enables wireless access to data networks such as the internet.

The applications that may use packet data are MMS, video streaming, browsing sessions, remote SyncML, Java application downloading, and the PC dial-up.

To define how to use the service, select **Menu** > *Settings* > *Connectivity* > *Packet data* > *Packet data connection* and from the following options:

*When needed* — to set the packet data connection to established when an application needs it. The connection will be closed when the application is terminated.

*Always online* — to set the phone to automatically connect to a packet data network when you switch the phone on. $G$ or $E$ indicates that the GPRS or EGPRS service is available. If you receive a call or a text message or make a call during a packet data connection, $\mathbb{G}$ or $\cancel{E}$ indicates that the GPRS or EGPRS connection is suspended (on hold).

### Modem settings

You can connect the phone using Bluetooth wireless technology or USB data cable connection to a compatible PC and use the phone as a modem to enable EGPRS connectivity from the PC.

To define the settings for EGPRS connections from your PC, select **Menu** > *Settings* > *Connectivity* > *Packet data* > *Packet data settings* > *Active access point*, and activate the access point you want to use. Select *Edit active access point* > *Alias for access point*, enter a name to change the access point settings, and select **OK**. Select *Packet data access point*, enter the access point name (APN) to establish a connection to an EGPRS network, and select **OK**.

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You can also set the EGPRS dial-up service settings (access point name) on your PC using the Nokia Modem Options software. See "Nokia PC Suite," p. 65. If you have set the settings both on your PC and on your phone, the PC settings are used.

## Data transfer

Synchronize your calendar, contacts data, and notes with another compatible device (for example, a mobile phone), a compatible PC, or a remote internet server (network service).

Your phone allows data transfer with a compatible PC or another compatible device when using the phone without a SIM card. Note that when you use the phone without a SIM card, some functions appear dimmed in the menus and cannot be used. Synchronizing with a remote internet server is not possible without a SIM card.

### Transfer contact list

To copy or synchronize data from your phone, the name of the device and the settings must be in the list of transfer contacts. If you receive data from another device (for example, a compatible mobile phone), the corresponding transfer contact is automatically added to the list, using the contact data from the other device. *Server synchronization* and *PC synchronization* are the original items in the list.

To add a new transfer contact to the list (for example a mobile phone), select **Menu** > *Settings* > *Connectivity* > *Data transfer* > **Options** > *Add transfer contact* > *Phone synchronization* or *Phone copy*, and enter the settings according to the transfer type.

To edit the copy and synchronize settings, select a contact from the transfer contact list and **Options** > *Edit*.

> **Note:** Every individual device must have its own entry in the transfer contact list. Using one transfer contact for several devices is not possible.

To delete a transfer contact, select it from the transfer contact list, select **Options** > *Delete*, and confirm *Delete transfer contact?*. You cannot delete *Server synchronization* or *PC synchronization*.

## Data transfer with a compatible device

For synchronization, Bluetooth wireless technology or a cable connection is used. The other device is in the standby mode.

To start data transfer, select **Menu** > *Settings* > *Connectivity* > *Data transfer* and the transfer contact from the list, other than *Server synchronization* or *PC synchronization*. According to the settings, the selected data is copied or synchronized. The other device also must be activated for receiving data.

## Synchronize from a compatible PC

Before you synchronize data from calendar, notes, and contacts from a compatible PC, you must install the Nokia PC Suite software of your phone on the PC. Use Bluetooth wireless technology or a USB data cable for the synchronization, and start the synchronization from the PC.

### Synchronize from a server

To use a remote internet server, you must subscribe to a synchronization service. For more information and the settings required for this service, contact your service provider. You may receive the settings as a configuration message. See "Configuration settings service," p. 9 and "Configuration," p. 51.

If you have saved data on the remote internet server, to synchronize your phone, start the synchronization from your phone.

Select **Menu** > *Settings* > *Connectivity* > *Data transfer* > *Server synchronization*. Depending on the settings, select *Initializing synchronization* or *Initializing copy*.

Synchronizing for the first time or after an interrupted synchronization may take up to 30 minutes to complete, if the contacts or calendar are full.

## USB data cable

You can use the USB data cable to transfer data between the phone and a compatible PC or a printer supporting PictBridge. You can also use the USB data cable with Nokia PC Suite.

To activate the phone for data transfer or image printing, connect the data cable; when the phone displays *USB data cable connected. Select mode.*, select **OK**. Select from the following modes:

*Default mode* — to use the cable for PC Suite

*Printing* — to print images directly from the phone using a compatible printer

*Data storage* — to activate the memory card for data transfer.

To change the USB mode, select **Menu** > *Settings* > *Connectivity* > *USB data cable* > *Default mode*, *Printing*, or *Data storage*.

## ■ Call

Select **Menu** > *Settings* > *Call* and from the following options:

*Call forwarding* — to forward your incoming calls (network service). You may not be able to forward your calls if some call restriction functions are active. See *Call restrictions* in "Security," p. 52.

*Anykey answer* > *On* — to answer an incoming call by briefly pressing any key, except the power key, the camera key, the left and right selection keys, or the end key.

*Answ. when fold opened* > *On* — to answer an incoming call by opening the fold.

*Automatic redial* > *On* — to make a maximum of 10 attempts to connect the call after an unsuccessful call attempt.

*1-touch dialing* > *On* — to dial the names and phone numbers assigned to the 1-touch-dialing keys **2** to **9** by pressing and holding the corresponding number key.

*Call waiting > Activate* — to have the network notify you of an incoming call while you have a call in progress (network service). See "Call waiting," p. 19.

*Summary after call > On* — to briefly display the approximate duration of the call after each call.

*Send my caller ID > Yes* — to show your phone number to the person you are calling (network service). To use the setting agreed upon with your service provider, select *Set by network*.

*Line for outgoing calls* — to select the phone line 1 or 2 for making calls if supported by your SIM card (network service).

## ■ Phone

Select **Menu** > *Settings* > *Phone* and from the following options:

*Language settings* — to set the display language of your phone, select *Phone language*. If you select *Automatic*, the phone selects the language according to the information on the SIM card.

To select the USIM card language, select *SIM language*.

To set a language for the voice playback, select *Voice playback language*. See "Enhanced voice dialing," p. 18 and *Voice commands* in "My shortcuts," p. 44.

*Security keyguard* — to set the phone to ask for the security code when you unlock the keyguard. Enter the security code, and select *On*.

*Automatic keyguard* — to set the keys to lock automatically. Choose *On* and the time-out to activate the keyguard or *Off* to set the automatic keyguard off.

*Welcome note* — to write the note you would like to be shown briefly when the phone is switched on.

*Flight query > On* — the phone asks every time when it is switched on whether the flight profile shall be used. With flight profile all radio connections are switched off. The flight profile should be used in areas sensitive to radio emissions.

*Phone updates* — to receive phone software updates from your service provider (network service). This option may not be available, depending on your phone. See "Phone software updates," p. 52.

*Operator selection > Automatic* — to set the phone to automatically select one of the cellular networks available in your area. With *Manual* you can select a network that has a roaming agreement with your service provider.

*Confirm SIM serv. actions* — see "SIM services," p. 64.

*Help text activation* — to select whether the phone shows help texts.

*Start-up tone > On* — the phone plays a tone when it is switched on.

# ■ Enhancements

This menu or the following options are shown only if the phone is or has been connected to a compatible mobile enhancement.

Select **Menu** > *Settings* > *Enhancements*. Select an enhancement, and depending on the enhancement, from the following options:

*Default profile* — to select the profile that you want to be automatically activated when you connect to the selected enhancement.

*Automatic answer* — to set the phone to answer an incoming call automatically after 5 seconds. If *Incoming call alert* is set to *Beep once* or *Off*, automatic answer is off.

*Lights* — to set the lights permanently *On*. Select *Automatic* to set the lights on for 15 seconds after a key press.

*TTY/TDD* > *Use TTY* > *Yes* — to use the TTY settings instead of headset or loopset settings.

# ■ Configuration

You can configure your phone with settings that are required for certain services to function correctly. The services are multimedia messaging, IM, synchronization, streaming, and browser. Your service provider may also send you these settings. See "Configuration settings service," p. 9.

Select **Menu** > *Settings* > *Configuration* and from the following options:

*Default config. settings* — to view the service providers saved in the phone. Scroll to a service provider, and select **Details** to view the applications that the configuration settings of this service provider support. To set the configuration settings of the service provider as default settings, select **Options** > *Set as default*. To delete configuration settings, select *Delete*.

*Activ. default in all apps.* — to activate the default configuration settings for supported applications.

*Preferred access point* — to view the saved access points. Scroll to an access point, and select **Options** > *Details* to view the name of the service provider, data bearer, and packet data access point or GSM dial-up number.

*Connect to serv. support* — to download the configuration settings from your service provider.

*Device manager settings* — to allow or prevent the phone from receiving phone software updates. This option may not be available, depending on your phone. See "Phone software updates," p. 52.

*Personal config. settings* — to add new personal accounts for various services manually, and to activate or delete them. To add a new personal account if you have not added any, select **Add new**; otherwise, select **Options** > *Add new*. Select the service type, and select and enter each of the required parameters. The parameters differ according to the selected service type. To delete or activate a personal account, scroll to it, and select **Options** > *Delete* or *Activate*.

## ■ Security

When security features that restrict calls are in use (such as call restriction, closed user group, and fixed dialing) calls still may be possible to the official emergency number programmed into your device.

Select **Menu** > *Settings* > *Security* and from the following options:

*PIN code request* and *UPIN code request* — to set the phone to ask for your PIN or UPIN code every time the phone is switched on. Some SIM cards do not allow the code request to be turned off.

*Call restrictions* — to restrict incoming calls to and outgoing calls from your phone (network service). A restricting password is required.

*Fixed dialing* — to restrict your outgoing calls to selected phone numbers if this function is supported by your SIM card.

*Closed user group* — to specify a group of people whom you can call and who can call you (network service).

*Security level* > *Phone* — to set the phone to ask for the security code whenever a new SIM card is inserted into the phone. If you select *Memory*, the phone asks for the security code when the SIM card memory is selected, and you want to change the memory in use.

*Access codes* — to change the security code, PIN code, UPIN code, PIN2 code, or restricting password.

*Code in use* — to select whether the PIN code or UPIN code should be active.

*PIN2 code request* — to select whether the PIN2 code is required when using a specific phone feature which is protected by the PIN2 code. Some SIM cards do not allow the code request to be turned off.

*Authority certificates* or *User certificates* — to view the list of the authority or user certificates downloaded into your phone. See "Certificates," p. 34.

*Security module settings* — to view *Security module details*, to activate *Module PIN request*, or change the module PIN and signing PIN. See also "Access codes," p. 8.

*Secure element* — to allow the access of an external NFC reader to the secure element without confirmation, with confirmation or with passcode. To change the secure element passcode select *Change passcode*. See also "Payment and ticketing," p. 63.

## ■ Phone software updates

Your service provider may send phone software updates over the air directly to your device. This option may not be available, depending on your phone.

**Warning:** If you install a software update, you cannot use the device, even to make emergency calls, until the update is completed and the device is restarted. Be sure to backup data before accepting a software update.

## Settings

To allowed or disallow phone software updates, select **Menu** > *Settings* > *Configuration* > *Device manager settings* > *Service prov. sw updates*, and from the following options:

*Always allow* — to perform all software downloads and updates automatically

*Confirm first* — to perform software downloads and updates only after your confirmation (default setting)

*Always reject* — to reject all software updates.

Depending on your settings you will be notified that a software update is available for download or has been downloaded and installed automatically.

## Request a software update

Select **Menu** > *Settings* > *Phone* > *Phone updates* to request available phone software updates from your service provider. Select *Current software details* to display the current software version and check whether an update is needed. Select *Download phone softw.* to download and install a phone software update. Follow the instructions on the display.

## Install a software update

Select *Install software update* to start the installation, when the installation was cancelled after the download.

The software update may take several minutes. If there are problems with the installation, contact your service provider.

## ■ Restore factory settings

To reset some of the menu settings to their original values, select **Menu** > *Settings* > *Restore factory sett.*, and enter the security code. The names and phone numbers saved in *Contacts* are not deleted.

# 12. Operator menu

This menu lets you access a portal to services provided by your service provider. The name and the icon depend on the operator. For more information contact your service provider.

The operator can update this menu with a service message. For more information, see "Service inbox," p. 33.

# 13. Audio messaging

You can use the multimedia message service to create and send an audio message in a convenient way. Multimedia messaging service must be activated before you can use audio messages.

To create an audio message, select **Menu** > *Audio msg.* or **Menu** > *Messaging* > *Create message* > *Audio message*. For more information, see "Nokia Xpress audio messaging," p. 26.

# 14. Calculator

The calculator in your phone provides basic arithmetic and trigonometric functions, calculates the square and the square root, the inverse of a number, and converts currency values.

Select **Menu** > *Calculator* or **Menu** > *Organizer* > *Calculator*. For more information, see "Calculator," p. 61.

# 15. Media

When taking and using images or video clips, obey all laws and respect local customs as well as privacy and legitimate rights of others.

## ■ Camera

You can take photos or record video clips with the built-in camera.

### Take a photo

To start the camera, press the camera key in the standby mode, or select **Menu** > *Media* > *Camera*.

To take an image in landscape format, hold the phone in a horizontal position. Scroll left or right to change between camera (still image) and video mode.
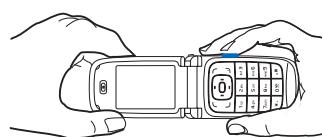
To zoom in and out in the camera mode, scroll up and down, or press the volume keys.

To take a photo, select **Capture**, or press the camera key. The phone saves the photo in **Menu** > *My files* > *Gallery* > *Images*.

To take a self-portrait, close the fold and use the mini display as a view finder. Press the camera key.

Select **Options** to set *Night mode on* if the lighting is dim, *Self-timer on* to activate the self-timer, *Img. sequence on* to take photos in a fast sequence. With the highest image size setting 3 photos are taken in a sequence, with other size settings 5 photos are taken.

Select **Options** > *Settings* >*Image preview time* and a preview time to display the taken photo on the display. During the preview time, select **Back** to take another photo or **Send** to send the photo as a multimedia message.

Your device supports an image capture resolution of 1280 x 960 pixels. The image resolution in these materials may appear different.

## Record a video clip

To select the video mode, scroll left or right, or select **Options** > *Video*. To start the video recording, select **Record**. To pause the recording, select **Pause**; to resume the recording, select **Continue**. To stop the recording, select **Stop**. The phone saves the recording in **Menu** > *My files* > *Gallery* > *Video clips*.

## Camera options

To use a filter with the camera, select **Options** > *Effects* >*False colors*, *Grayscale*, *Sepia*, *Negative*, or *Solarize*.

To change the camera settings, select **Options** > *Settings*.

# ■ Media player

With the media player you can view, play, and download files, such as images, audio, video, and animated images. You can also view compatible streaming videos from a network server (network service).

Select **Menu** > *Media* > *Media player* > *Open gallery*, *Bookmarks*, *Go to address*, or *Media downloads* to select or download media.

Select **Menu** > *Media* > *Media player* > *FF/Rew interval* to set the step width for fast forward or rewind.

## Configuration for a streaming service

You may receive the configuration settings required for streaming as a configuration message from the service provider. See "Configuration settings service," p. 9. You can also enter the settings manually. See "Configuration," p. 51. To activate the settings, do the following:

1. Select **Menu** > *Media* > *Media player* > *Streaming settings* > *Configuration*. Only the configurations that support streaming are shown.

2. Select a service provider, *Default*, or *Personal configuration* for streaming.

3. Select *Account* and a streaming service account contained in the active configuration settings.

# ■ Music player

Your phone includes a music player for listening to music tracks, recordings or other MP3 or AAC sound files that you have transferred to the phone with the Nokia Audio Manager application, which is part of Nokia PC Suite. See "Nokia PC Suite," p. 65.

Music files stored in a folder in the phone memory or in a folder of the multimedia card, will automatically be detected and added to the default track list.

To open the music player, select **Menu** > *Media* > *Music player*.

## Playing the music tracks

⚠ **Warning!** Listen to music at a moderate level. Continuous exposure to high volume may damage your hearing.

When you open the *Music player* menu, the details of the first track on the default track list are shown.

To play, select ▶ .

To adjust the volume level, use the volume keys on the side of the phone.

To stop the playing, select ■ .

To skip to the next track, select ▶▶ . To skip to the beginning of the previous track, select ◄◄ .

To rewind the current track, select and hold ◄◄ . To fast forward the current track, select and hold ▶▶ . Release the key at the position you want.

## Settings for the music player

In the *Music player* menu the following options may be available:

*Play via Bluetooth* — to connect and play music through a Bluetooth enabled audio accessory using Bluetooth connection.

*Track list* — view all the tracks available on the track list and play the desired track. To play a track, scroll to the desired track, and select **Play**.

If you select **Options**, you can refresh the track list (for example, after adding new tracks to the list) and change the track list that is shown when you open the *Music player* menu if several track lists are available in the phone.

*Play options* — select *Random* to play the tracks on the track list in random order. Select *Repeat* to play the current track or the entire track list repeatedly. Select *Music source* to select a folder with music tracks.

*Media equalizer* — select or define an equalizer setting. See "Equalizer," p. 59.

*Loudspeaker/Headset*— listen to the music player using the phone loudspeaker or headset (only if a headset is attached).

> **Tip:** When using a headset, press the headset key to skip to the next track.

*Send* — to send the selected file to another phone using MMS or a bluetooth connection.

*Web page* — to access a Web page associated with the currently played track. Dimmed if no Web page is available.

*Music downloads*— to connect to a browser service related to the current track. This function is only available when the address of the service is included in the track.

# ■ Radio

The FM radio depends on an antenna other than the wireless device's antenna. A compatible headset or enhancement needs to be attached to the device for the FM radio to function properly.

> **Warning:** Listen to music at a moderate level. Continuous exposure to high volume may damage your hearing. Do not hold the device near your ear when the loudspeaker is in use, because the volume may be extremely loud.

Select **Menu** > *Media* > *Radio*.

To use the graphical keys ▲ , ▼ , ◄◄ , or ►► on the display, scroll left or right to the desired key, and select it.

## Save radio frequencies

1. To start the search, select and hold ◄◄ or ►►. To change the radio frequency in 0.05 MHz steps, briefly press ◄◄ or ►►.

2. To save a frequency to a memory location, 1 to 9, press and hold the corresponding number key. To save a frequency to a memory location from 10 to 20, press briefly **1** or **2**, and press and hold the desired number key, **0** to **9**.

3. Enter the name of the radio station.

## Listen to the radio

Select **Menu** > *Media* > *Radio*. To scroll to the desired frequency, select ▲ or ▼ , or press the headset key. To select a radio station, briefly press the corresponding number keys. To adjust the volume, press the volume keys.

Select from the following options:

*Turn off* — to turn off the radio.

*Save station* — to save a new radio station.

*Visual Radio* — to set whether the Visual Radio application is used (network service). To check the availability and costs, contact your service provider. Some radio stations may send text or graphical information that you can view using the Visual Radio application.

*Visual Radio settings* — to select the options for *Visual Radio*. To set whether the application starts automatically when you turn on the radio, select *Enable visual service* > *Automatically*. To access a Web site with a list of radio stations, select *Station directory*. If available, their visual radio ID is shown.

*Stations* — to select the list of saved stations. To delete or rename a station, scroll to the desired station, and select **Options** > *Delete station* or *Rename*.

*Mono output* or *Stereo output* — to listen to the radio in monophonic sound or in stereo.

*Loudspeaker* or *Headset* — to listen to the radio using the loudspeaker or headset. Keep the headset connected to the phone. The lead of the headset functions as the radio antenna.

*Set frequency* — to enter the frequency of the desired radio station.

You can normally make a call or answer an incoming call while listening to the radio. During the call, the volume of the radio is muted.

When an application using a packet data or HSCSD connection is sending or receiving data, it may interfere with the radio.

## ■ Voice recorder

You can record pieces of speech, sound, or an active call, and save them in *Gallery*. This is useful when recording a name and phone number to write down later.

The recorder cannot be used when a data call or GPRS connection is active.

### Record sound

1. Select **Menu** > *Media* > *Voice recorder*.

   To use the graphical keys ⬤ , ▮▮ , or ▮ on the display, scroll left or right to the desired key, and select it.

2. To start the recording, select ⬤ . To start the recording during a call, select **Options** > *Record*. While recording a call, all parties to the call hear a faint beeping sound. When recording a call, hold the phone in the normal position near to your ear. To pause the recording, select ▮▮ .

3. To end the recording, select ▮ . The recording is saved in **Menu** > *My files* > *Gallery* > *Recordings*.

   To listen to the latest recording, select **Options** > *Play last recorded*.

   To send the last recording, select **Options** > *Send last recorded*.

   To see the list of recordings in *Gallery*, select **Options** > *Recordings list* > *Recordings*.

   To use a folder other than *Recordings* as the default folder in the *Gallery*, select **Options** > *Select memory* and a folder from the list.

## ■ Equalizer

You can control the sound quality when using the music player by amplifying or diminishing frequency bands.

Select **Menu** > *Media* > *Equalizer.*

To activate a set, scroll to one of the equalizer sets, and select **Activate**.

To view, edit, or rename a selected set, select **Options** > *View*, *Edit*, or *Rename*. Not all sets can be edited or renamed.

## ■ Stereo widening

Stereo widening enhances the audio output of the music player by enabling a wider stereo sound effect. To change the setting, select **Menu** > *Media* > *Stereo widening*.

# 16. Organizer

Your Nokia mobile phone has many useful features for organizing your everyday life. The following features are found in *Organizer*: alarm clock, calendar, to-do list, notes, calculator, countdown timer, and stopwatch.

## ■ Alarm clock

You can set the phone to alarm at a desired time. Select **Menu** > *Organizer* > *Alarm clock*.

To set the alarm, select *Alarm time*, and enter the alarm time. To change the alarm time when the alarm time is set, select *On*.

To set the phone to alert you on selected days of the week, select *Repeat alarm*.

To select the alarm tone or set the radio as the alarm tone, select *Alarm tone*. If you select the radio as an alarm tone, connect the headset to the phone. The phone uses the last radio station you listened to as the alarm, and the alarm plays through the loudspeaker. If you remove the headset or switch off the phone, the default alarm tone replaces the radio.

To set a snooze time-out, select *Snooze time-out* and the time.

### Stop the alarm

The phone sounds an alert tone, and flashes *Alarm!* and the current time on the display, even if the phone was switched off. To stop the alarm, select **Stop**. If you let the phone continue to sound the alarm for a minute or select **Snooze**, the alarm stops for the time you set in *Snooze time-out*, then resumes.

If the alarm time is reached while the device is switched off, the device switches itself on and starts sounding the alarm tone. If you select **Stop**, the device asks whether you want to activate the device for calls. Select **No** to switch off the device or **Yes** to make and receive calls. Do not select **Yes** when wireless phone use may cause interference or danger.

# ■ Calendar

Select **Menu** > *Organizer* > *Calendar*.

The current day is indicated by a frame. If there are any notes set for the day, the day is in bold type, and the beginning of the note is shown below the calendar. To view the day notes, select **View**. To view a week, select **Options** > *Week view*. To delete all notes in the calendar, select the month or week view, and select **Options** > *Delete all notes*.

Other options for the day view may be to make a note; delete, edit, move, or repeat a note; copy a note to another day; send a note with Bluetooth technology; or send a note to the calendar of another compatible phone as a text message or multimedia message. In *Settings* you can set the date, time, time zone, date or time format, date separator, default view, or the first day of the week. In *Auto-delete notes* you can set the phone to delete old notes automatically after a specified time.

## Make a calendar note

Select **Menu** > *Organizer* > *Calendar*. Scroll to the date, and select **Options** > *Make a note* and one of the following note types: 🖼 *Meeting*, ☎ *Call*, 🎁 *Birthday*, 📝 *Memo*, or 📧 *Reminder*. Fill in the fields.

## Note alarm

The phone displays the note and if set, sounds a tone. With a call note ☎ on the display, to call the displayed number, press the call key. To stop the alarm and to view the note, select **View**. To stop the alarm for 10 minutes, select **Snooze**.

To stop the alarm without viewing the note, select **Exit**.

# ■ To-do list

To save a note for a task that you must do, select **Menu** > *Organizer* > *To-do list*.

To make a note if no note is added, select **Add**; otherwise, select **Options** > *Add*. Fill in the fields, and select **Save**.

To view a note, scroll to it, and select **View**. While viewing a note, you can also select an option to edit the attributes. You can also select an option to delete the selected note and delete all the notes that you have marked as done. You can sort the notes by priority or by deadline, send a note to another phone as a text message or a multimedia message, save a note as a calendar note, or access the calendar.

# ■ Notes

To write and send notes, select **Menu** > *Organizer* > *Notes*.

To make a note if no note is added, select **Add**; otherwise, select **Options** > *Make a note*. Write the note, and select **Save**.

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Other options include deleting and editing a note. While editing a note, you can also exit the text editor without saving the changes. You can send the note to compatible devices by Bluetooth wireless technology, text message, or a multimedia message.

## ■ Calculator

The calculator in your phone provides basic arithmetic and trigonometric functions, calculates the square and the square root, the inverse of a number, and converts currency values.

> **Note:** This calculator has limited accuracy and is designed for simple calculations.

Select **Menu** > *Organizer* > *Calculator*. When 0 is displayed on the screen, enter the first number in the calculation. Press **#** for a decimal point. Scroll to the desired operation or function or select it from the **Options**. Enter the second number. Repeat this sequence as many times as it is necessary. To start a new calculation, first select and hold **Clear**.

To perform a currency conversion, select **Menu** > *Organizer* > *Calculator*. To save the exchange rate, select **Options** > *Exchange rate*. Select either of the displayed options. Enter the exchange rate, press **#** for a decimal point, and select **OK**. The exchange rate remains in the memory until you replace it with another one. To perform the currency conversion, enter the amount to be converted, and select **Options** > *In domestic* or *In foreign*.

> **Note:** When you change base currency, you must enter new exchange rates because all previously set exchange rates are cleared.

## ■ Countdown timer

Select **Menu** > *Organizer* > *Countdown timer*. Enter the alarm time in hours, minutes, and seconds, and select **OK**. If you wish, write your own note text that is displayed when the time expires. To start the countdown timer, select **Start**. To change the countdown time, select *Change time*. To stop the timer, select *Stop timer*.

If the alarm time is reached when the phone is in the standby mode, the phone sounds a tone and flashes the note text if it is set or *Countdown completed*. To stop the alarm, press any key. If no key is pressed, the alarm automatically stops within 60 seconds. To stop the alarm and delete the note text, select **Exit**. To restart the countdown timer, select **Restart**.

## ■ Stopwatch

You can measure time, take intermediate times, or take lap times using the stopwatch. During timing, the other functions of the phone can be used. To set the stopwatch timing in the background, press the end key.

Using the stopwatch or allowing it to run in the background when using other features increases the demand on battery power and reduces the battery life.

Select **Menu** > *Organizer* > *Stopwatch* and from the following options:

*Split timing* — to take intermediate times. To start the time observation, select **Start**. Select **Split** every time that you want to take an intermediate time. To stop the time observation, select **Stop**.

To save the measured time, select **Save**.

To start the time observation again, select **Options** > *Start*. The new time is added to the previous time. To reset the time without saving it, select *Reset*.

*Lap timing* — to take lap times

*Continue* — to view the timing that you have set in the background

*Show last time* — to view the most recently measured time if the stopwatch is not reset

*View times* or *Delete times* — to view or delete the saved times.

# 17. NFC

With this device you can conduct local transactions simply by touching a point of sales device or ticket gate. This device also gives you easy access to a multitude of services by touching service tags with the device.

To use this device for payment and ticketing purposes, an appropriate secure application must be installed on the device. For information on availability of the service and installation of the secure application, contact your local service provider.

## ■ Near Field Communication

Near Field Communication (NFC) is a wireless connectivity technology that enables simple and safe, two-way interactions among electronic devices. You can perform contactless transactions, access digital content, and connect devices with a single touch.

NFC operates over a distance of a few centimeters. NFC technology is supported by leading mobile device manufacturers and is compatible with the majority of the available contactless payment or ticketing card infrastructure.

## ■ Tag detection on or off

To switch the service tag detection on 🔘 or off 🔘 , select **Menu** > *NFC* > *Tag detection*.

To save battery power, your device automatically switches off the screen backlight and sets the tag detection into standby mode. Any action on the devices reactivates the screen backlight and the tag detection.

> **Note:** If you are not using NFC, for example at home, switch the tag detection off.
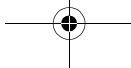
## ■ NFC detection

The NFC detection area (illustrated in grey) is
located in the upper part of the outside of the
fold, opposite the earpiece.

To use NFC, you must open the device. Touch
the service tag or point of sales device with the
detection area, as shown in the picture.

The reading range is typically 0 to 3 centimeters.

When the tag is recognized, a corresponding
notification is displayed.

## ■ Service tags

A tag can contain a shortcut, which can be an SMS-based service, a URL of an internet-based
service, a business card, or a phone number of a telephone service.

The Nokia NFC phone is compatible with non battery-powered (passive) tags. Use the following
tag types: MIFARE® (Standard, Standard 4k, Ultralight, and DESFire), Sony® FeliCa (non-secure),
and Innovision [Jewel (read-only) and Topaz]. You may obtain tags from these manufacturers or
from a local supplier. You may also use other ISO14443-4 compliant tags or cards.

> **Note:** Different tag and card implementations vary on the antenna size and on
> other electrical characteristics. Perform a test for interoperability with your
> selected tag implementation before usage.

## ■ Payment and ticketing

The device can be used as a contactless payment card or ticket in regions where contactless
payment or ticketing is supported. Before you can start using the device for payment or
ticketing, you need to apply for the payment card or ticket to be installed to the device from
your card issuer. For payment use, the card issuer is typically your bank; for public
transportation, it is the public transport operator of your location.

> **Note:** When an external NFC reader is detected, the corresponding secure
> application is launched on the device. Depending on the degree of activation,
> confirmation or a passcode is requested.

To set the security level, select **Menu** > *NFC* > *Secure elem sett.* > *Activation level.* Select
*Always active* to allow the access of an external NFC reader to the secure element without
confirmation. Select *Ask first* or *Ask passcode first* to allow the access with confirmation or
only with the passcode.

If the activation level is set to *Ask first* or *Ask passcode first*, the secure element remains
active for 60 seconds after confirmation or after entering the passcode. Touch the external
reader within this active time to perform the payment or ticketing.

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To change the secure element passcode, select **Menu** > *NFC* > *Secure elem sett.* > *Change passcode*.

> **Note:** If an incorrect passcode is entered 10 times, the secure application is locked. To unlock the secure application, contact local service provider.

## ■ Read service tags

Touch a service tag with your device to receive a business card, SMS message, call request, bookmark, or a Bluetooth connection.

The device notifies you when one of these items is received.

Up to 20 service tag readings are stored in the device. To make space for further service tag readings, acknowledge or discard previous tag readings.

## ■ Transmit to service tags

The device is able to transmit a business card, SMS message, call request, bookmark or web address to a service tag.

Select **Menu** > *NFC* > *Transmit to tag* and from the following options:

*Text message* — create a text message, select **Transmit**, and touch the service tag.

*Bookmark* — select a bookmark and **Transmit**, then touch the service tag.

*Business card* — select a contact from the contacts list and **Transmit**, then touch the service tag.

*Call request* — select a contact from the contacts list and **Transmit**, then touch the service tag.

> **Note:** When transmitting to a service tag, information previously written to the service tag will be written over without notice.

You can write the same information repeatedly to different service tags.

You may also create the desired item with the corresponding application on the device, and select **Options** > *Transmit to tag*.

# 18. SIM services

Your SIM card may provide additional services. You can access this menu only if it is supported by your SIM card. The name and contents of the menu depend on the available services.

For availability and information on using SIM card services, contact your SIM card vendor. This may be the service provider or other vendor.

To set the phone to show you the confirmation messages sent between your phone and the network when you are using the SIM services, select **Menu** > *Settings* > *Phone* > *Confirm SIM serv. actions* > *Yes*.

Accessing these services may involve sending messages or making a phone call for which you may be charged.

# 19. PC connectivity

You can access the internet when your phone is connected to a compatible PC through a Bluetooth or a data cable connection. You can use your phone with a variety of PC connectivity and data communications applications.

## ■ Nokia PC Suite

With Nokia PC Suite you can synchronize contacts, calendar, notes, and to-do notes between your phone and the compatible PC or a remote internet server (network service). You may find more information and PC Suite on the Nokia Web site at **www.nokiausa.com/support**.

## ■ EGPRS, HSCSD, and CSD

With your phone you can use the enhanced GPRS (EGPRS), General Packet Radio Service (GPRS), high-speed circuit switched data (HSCSD), and circuit switched data (CSD, *GSM data*) data services.

For availability and subscription to data services, contact your service provider.

The use of HSCSD services consumes the phone battery faster than normal voice or data calls. You may need to connect the phone to a charger for the duration of data transfer.

See "Modem settings," p. 47.

## ■ Data communication applications

For information on using a data communication application, refer to the documentation provided with it.

Making or answering phone calls during a computer connection is not recommended, as it might disrupt the operation.

For better performance during data calls, place the phone on a stationary surface with the keypad facing downward. Do not move the phone by holding it in your hand during a data call.

# 20. Enhancements

To enhance phone functionality, a range of enhancements is available for you. Select any of these items to help accommodate your specific communication needs.

### Practical rules about accessories and enhancements

- Keep all accessories and enhancements out of the reach of small children.

- When you disconnect the power cord of any accessory or enhancement, grasp and pull the plug, not the cord.

- Check regularly that enhancements installed in a vehicle are mounted and are operating properly.

- Installation of any complex car enhancements must be made by qualified personnel only.

# 21. Battery information

## ■ Charging and discharging

Your device is powered by a rechargeable battery. The battery can be charged and discharged hundreds of times, but it will eventually wear out. When the talk and standby times are noticeably shorter than normal, replace the battery. Use only Nokia approved batteries, and recharge your battery only with Nokia approved chargers designated for this device.

The full performance of a new battery is achieved only after two or three complete charge and discharge cycles.

If a replacement battery is being used for the first time or if the battery has not been used for a prolonged period, it may be necessary to connect the charger, then disconnect and reconnect it to begin charging.

Unplug the charger from the electrical plug and the device when not in use. Do not leave a fully charged battery connected to a charger, since overcharging may shorten its lifetime. If left unused, a fully charged battery will lose its charge over time.

If the battery is completely discharged, it may take several minutes before the charging indicator appears on the display or before any calls can be made.

Use the battery only for its intended purpose. Never use any charger or battery that is damaged.

Do not short-circuit the battery. Accidental short-circuiting can occur when a metallic object such as a coin, clip, or pen causes direct connection of the positive (+) and negative (-)

terminals of the battery. (These look like metal strips on the battery.) This might happen, for example, when you carry a spare battery in your pocket or purse. Short-circuiting the terminals may damage the battery or the connecting object.

Leaving the battery in hot or cold places, such as in a closed car in summer or winter conditions, will reduce the capacity and lifetime of the battery. Always try to keep the battery between 15°C and 25°C (59°F and 77°F). A device with a hot or cold battery may not work temporarily, even when the battery is fully charged. Battery performance is particularly limited in temperatures well below freezing.

Do not dispose of batteries in a fire as they may explode. Batteries may also explode if damaged. Dispose of batteries according to local regulations. Please recycle when possible. Do not dispose as household waste.

## ■ Nokia battery authentication guidelines

Always use original Nokia batteries for your safety. To check that you are getting an original Nokia battery, purchase it from an authorized Nokia dealer, look for the Nokia Original Enhancements logo on the packaging, and inspect the hologram label using the following steps:

Successful completion of the four steps is not a total assurance of the authenticity of the battery. If you have any reason to believe that your battery is not an authentic, original Nokia battery, you should refrain from using it, and take it to the nearest authorized Nokia service point or dealer for assistance. Your authorized Nokia service point or dealer will inspect the battery for authenticity. If authenticity cannot be verified, return the battery to the place of purchase.

### Authenticate hologram
1. When looking at the hologram on the label, you should see the Nokia connecting hands symbol from one angle and the Nokia Original Enhancements logo when looking from another angle.

2. When you angle the hologram left, right, down, and up, you should see 1, 2, 3, and 4 dots on each side respectively.

3. Scratch the side of the label to reveal a 20-digit code, for example, 12345678919876543210. Turn the battery so that the numbers are facing upwards. The 20-digit code reads starting from the number at the top row followed by the bottom row.

4.  Confirm that the 20-digit code is valid by following the instructions at **www.nokia.com/batterycheck**.
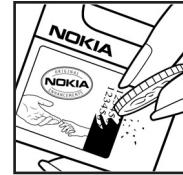
**What if your battery is not authentic?**

If you cannot confirm that your Nokia battery with the hologram on the label is an authentic Nokia battery, please do not use the battery. Take it to the nearest authorized Nokia service point or dealer for assistance. The use of a battery that is not approved by the manufacturer may be dangerous and may result in poor performance and damage to your device and its enhancements. It may also invalidate any approval or warranty applying to the device.

To find out more about original Nokia batteries, visit **www.nokia.com/battery**.

# Care and maintenance

Your device is a product of superior design and craftsmanship and should be treated with care. The following suggestions will help you protect your warranty coverage.

- Keep the device dry. Precipitation, humidity, and all types of liquids or moisture can contain minerals that will corrode electronic circuits. If your device does get wet, remove the battery, and allow the device to dry completely before replacing it.

- Do not use or store the device in dusty, dirty areas. Its moving parts and electronic components can be damaged.

- Do not store the device in hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.

- Do not store the device in cold areas. When the device returns to its normal temperature, moisture can form inside the device and damage electronic circuit boards.

- Do not attempt to open the device other than as instructed in this guide.

- Do not drop, knock, or shake the device. Rough handling can break internal circuit boards and fine mechanics.

- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the device.

- Do not paint the device. Paint can clog the moving parts and prevent proper operation.

- Use a soft, clean, dry cloth to clean any lenses, such as camera, proximity sensor, and light sensor lenses.

- Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications, or attachments could damage the device and may violate regulations governing radio devices.

- Use chargers indoors.

- Always create a backup of data you want to keep, such as contacts and calendar notes.

- To reset the device from time to time for optimum performance, power off the device and remove the battery.

These suggestions apply equally to your device, battery, charger, or any enhancement. If any device is not working properly, take it to the nearest authorized service facility for service.

### Disposal

The crossed-out wheeled-bin symbol on your product, literature, or packaging reminds you that in the European Union all electrical and electronic products, batteries, and accumulators must be taken to separate collection at the end of their working life. Do not dispose of these products as unsorted municipal waste.

Return the products to collection to prevent possible harm to the environment or human health from uncontrolled waste disposal and to promote the sustainable reuse of material resources. Collection information is available from the product retailer, local waste authorities, national producer responsibility organizations, or your local Nokia representative. For more information, see product Eco-Declaration or country-specific information at www.nokiausa.com.

# Additional safety information

## ■ Small children

Your device and its enhancements may contain small parts. Keep them out of the reach of small children.

## ■ Operating environment

This device meets RF exposure guidelines when used either in the normal use position against the ear or when positioned at least 2.2 centimeters (7/8 inch) away from the body. When a carry case, belt clip, or holder is used for body-worn operation, it should not contain metal and should position the device the above-stated distance from your body.

To transmit data files or messages, this device requires a quality connection to the network. In some cases, transmission of data files or messages may be delayed until such a connection is available. Ensure that the above separation distance instructions are followed until the transmission is completed.

Parts of the device are magnetic. Metallic materials may be attracted to the device. Do not place credit cards or other magnetic storage media near the device, because information stored on them may be erased.

## ■ Medical devices

Operation of any radio transmitting equipment, including wireless phones, may interfere with the functionality of inadequately protected medical devices. Consult a physician or the manufacturer of the medical device to determine if they are adequately shielded from external RF energy or if you have any questions. Switch off your device in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

### Implanted medical devices

Manufacturers of medical devices recommend that a minimum separation of 15.3 centimeters (6 inches) should be maintained between a wireless device and an implanted medical device, such as a pacemaker or implanted cardioverter defibrillator, to avoid potential interference with the medical device. Persons who have such devices should:

- Always keep the wireless device more than 15.3 centimeters (6 inches) from the medical device when the wireless device is turned on.
- Not carry the wireless device in a breast pocket.
- Hold the wireless device to the ear opposite the medical device to minimize the potential for interference.
- Turn the wireless device off immediately if there is any reason to suspect that interference is taking place.
- Read and follow the directions from the manufacturer of their implanted medical device.

If you have any questions about using your wireless device with an implanted medical device, consult your health care provider.

### Hearing aids

Some digital wireless devices may interfere with some hearing aids. If interference occurs, consult your service provider.

## ■ Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles such as electronic fuel injection systems, electronic antiskid (antilock) braking systems, electronic speed control systems, and air bag systems. For more information, check with the manufacturer, or its representative, of your vehicle or any equipment that has been added.

Only qualified personnel should service the device or install the device in a vehicle. Faulty installation or service may be dangerous and may invalidate any warranty that may apply

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to the device. Check regularly that all wireless device equipment in your vehicle is mounted and operating properly. Do not store or carry flammable liquids, gases, or explosive materials in the same compartment as the device, its parts, or enhancements. For vehicles equipped with an air bag, remember that air bags inflate with great force. Do not place objects, including installed or portable wireless equipment in the area over the air bag or in the air bag deployment area. If in-vehicle wireless equipment is improperly installed and the air bag inflates, serious injury could result.

Using your device while flying in aircraft is prohibited. Switch off your device before boarding an aircraft. The use of wireless teledevices in an aircraft may be dangerous to the operation of the aircraft, disrupt the wireless telephone network, and may be illegal.

## ■ Potentially explosive environments

Switch off your device when in any area with a potentially explosive atmosphere, and obey all signs and instructions. Potentially explosive atmospheres include areas where you would normally be advised to turn off your vehicle engine. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death. Switch off the device at refueling points such as near gas pumps at service stations. Observe restrictions on the use of radio equipment in fuel depots, storage, and distribution areas; chemical plants; or where blasting operations are in progress. Areas with a potentially explosive atmosphere are often, but not always, clearly marked. They include below deck on boats, chemical transfer or storage facilities and areas where the air contains chemicals or particles such as grain, dust, or metal powders. You should check with the manufacturers of vehicles using liquefied petroleum gas (such as propane or butane) to determine if this device can be safely used in their vicinity.

## ■ Emergency calls

**Important:** Wireless phones, including this device, operate using radio signals, wireless networks, landline networks, and user-programmed functions. Because of this, connections in all conditions cannot be guaranteed. You should never rely solely on any wireless device for essential communications like medical emergencies.

**To make an emergency call:**
1. If the device is not on, switch it on. Check for adequate signal strength.

   Some networks may require that a valid SIM card is properly inserted in the device.
2. Press the end key as many times as needed to clear the display and ready the device for calls.
3. Enter the official emergency number for your present location. Emergency numbers vary by location.
4. Press the call key.

If certain features are in use, you may first need to turn those features off before you can make an emergency call. Consult this guide or your service provider for more information.

When making an emergency call, give all the necessary information as accurately as possible. Your wireless device may be the only means of communication at the scene of an accident. Do not end the call until given permission to do so.

## ■ Certification information (SAR)

**This mobile device meets guidelines for exposure to radio waves.**

Your mobile device is a radio transmitter and receiver. It is designed not to exceed the limits for exposure to radio waves recommended by international guidelines. These guidelines were developed by the independent scientific organization ICNIRP and include safety margins designed to assure the protection of all persons, regardless of age and health.

The exposure guidelines for mobile devices employ a unit of measurement known as the Specific Absorption Rate or SAR. The SAR limit stated in the ICNIRP guidelines is 2.0 watts/kilogram (W/kg) averaged over 10 grams of tissue. Tests for SAR are conducted using standard operating positions with the device transmitting at its highest certified power level in all tested frequency bands. The actual SAR level of an operating device can be below the maximum value because the device is designed to use only the power required to reach the network. That amount changes depending on a number of factors such as how close you are to a network base station. The highest SAR value under the ICNIRP guidelines for use of the device at the ear is 0.96 W/kg.

Use of device accessories and enhancements may result in different SAR values. SAR values may vary depending on national reporting and testing requirements and the network band. Additional SAR information may be provided under product information at **www.nokiausa.com**.

Your mobile device is also designed to meet the requirements for exposure to radio waves established by the Federal Communications Commission (USA) and Industry Canada. These requirements set a SAR limit of 1.6 W/kg averaged over one gram of tissue. The highest SAR value reported under this standard during product certification for use at the ear is 1.23 W/kg and when properly worn on the body is 0.47 W/kg.

## ■ Talk and standby times

This section provides information about battery talk times, and standby times. Be aware that the information in this section is subject to change. For more information, contact your service provider.

Operation times are estimates only and depend on signal strength, phone use, network conditions, features used, battery age and condition (including charging habits), temperatures to which the battery is exposed, and many other factors. The following times are approximate with the BL-4C, 860 mAh Li-ion battery:

Talk time: up to 3.4 hours

Standby time: up to 240 hours

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